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PARTS CATALOG

FOR



ELECTRIC GENERATING PLANTS

KB

SERIES

ONAN

1400 73RD AVENUE N.E. • MINNEAPOLIS, MINNESOTA 55432
A DIVISION OF ONAN CORPORATION

PARTS CATALOG

INSTRUCTIONS FOR ORDERING REPAIR PARTS

ONAN PARTS

All parts in this list are **Onan** parts. For **Onan** parts or service, contact the dealer from who you purchased this equipment or your nearest authorized service station. To avoid errors or delay in filling your order, please refer to the **Onan** nameplate located on the upper right side of the flywheel housing and give the complete:

MODEL & SPEC NO.
SERIAL NO.

ELECTRIC Onan PLANT
MODEL AND SPECIFICATION NO. SERIAL NO.
IMPORTANT MENTION ABOVE NUMBERS AND GEN. DATA NO. WHEN ORDERING PARTS OR WRITING ABOUT THIS PLANT.
RATINGS AT SEA LEVEL BASED ON FUEL CHECKED BELOW:
GASOLINE DIESEL FUEL
STAND BY KW KVA AMPS
CONTINUOUS KW KVA AMPS
A.C. VOLTS CYCLES PHASE P.F.
EXCITER GEN. DATA
R.P.M. USE VOLT BATTERY-NEGATIVE GROUND
MANUFACTURED BY
ONAN
DIVISION OF SPUDS BROTHER CORPORATION
MINNEAPOLIS 14, MINNESOTA
MADE IN U.S.A.

INTERNATIONAL HARVESTER PARTS

All International Harvester parts must be ordered from the International Harvester Company, Chicago, Illinois or the nearest International Harvester Construction Equipment distributor or dealer.

Refer to the International Harvester nameplate located on the right side of the flywheel housing as viewed facing the radiator end.

When ordering parts or requesting service information supply all information stated on engine nameplate and engine serial number which is stamped on front of cylinder block directly below right hand cylinder head.

MADE IN UNITED STATES OF AMERICA BY
INTERNATIONAL HARVESTER CO.
CHICAGO, ILLINOIS

MODEL
SERIAL NO.
MAX. IDLE SPEED FULL LOAD SPEED
DO NOT OVERLOAD

This catalog applies to the standard **ONAN** KB Series plants as listed below. Powered by an International Harvester UV401 engine (see International Harvester's Manual). Engine parts modified or added by **ONAN** will be in this list and have **ONAN** part numbers. These supersede similar parts listed in the International Harvester manual. **ONAN** parts are arranged in groups of related items and are identified by a reference. All parts illustrations are typical. Unless otherwise mentioned, parts are interchangeable. Right and left plant sides are determined by facing the front end of the engine.

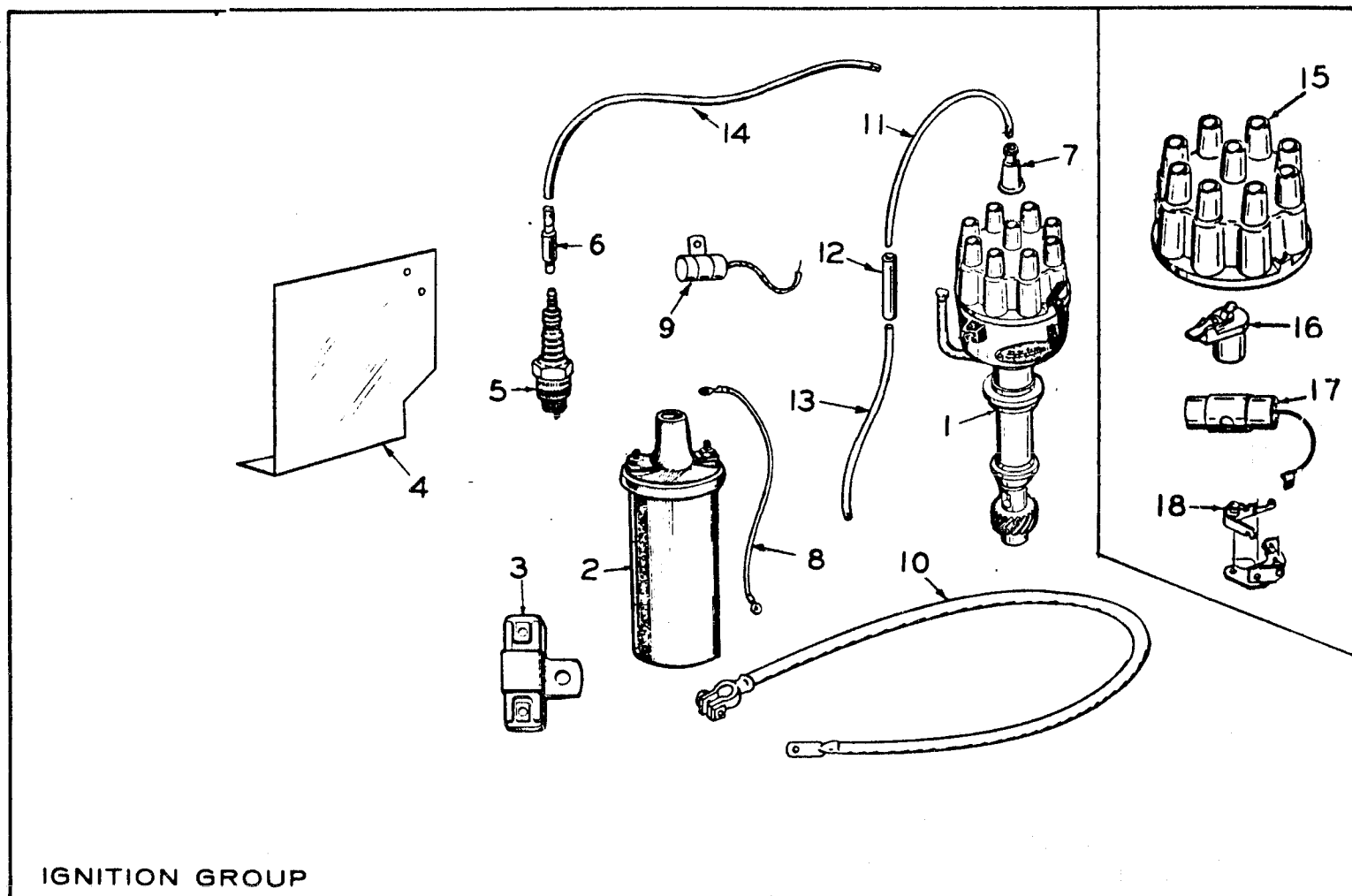
PLANT DATA TABLE

MODEL & SPEC NO. *		ELECTRICAL DATA				
		WATTS**	VOLTS	CYCLES	PHASE	WIRE
HOUSED	UNHOUSED					
50KB-3R/	50KB-3R8/	55,000	120/240	60	1	3
50KB-4R/	50KB-4R8/	55,000	120/208	60	3	4
50KB-4XR/	50KB-4XR8/	55,000	277/480	60	3	4
50KB-5DR/ £	50KB-5DR8/ £	55,000	120/240	60	3	4
50KB-6R/	50KB-6R8/	55,000	480	60	3	3
50KB-9R/	50KB-9R8/	55,000	600	60	3	3
60KB-3R/	60KB-3R8/	65,000	120/240	60	1	3
60KB-4R/	60KB-4R8/	65,000	120/208	60	3	4
60KB-4XR/	60KB-4XR8/	65,000	277/480	60	3	4
60KB-5DR/ £	60KB-5DR/ £	65,000	120/240	60	3	4
60KB-6R/	60KB-6R8/	65,000	480	60	3	3
60KB-9R/	60KB-9R8/	65,000	600	60	3	3
Pennsylvania Approved Plants		See special parts list following the main parts list.				

- * - The Specification Letter advances (A to B, B to C, etc.) with manufacturing changes.
- ** - Maximum rating is shown. Continuous rating also appears on nameplate.
- £ - This is a delta-wound 240-volt model with one phase center-tapped. A limited amount of 1-phase, 120/240-volt power can be utilized together with 3-phase power as long as no terminal current exceeds the rated nameplate current.

REPLACEMENT ENGINE

- 100P440 I Engine, Replacement (Replaces #100P264, and #100P310) - International Harvester Co. Model UV-401, Spec 0-26E.
- General Description:
- Includes - Complete Cylinder Block, Oil Pan, Water Pump, Oil Filter, Governor, Exhaust Manifolds, and Engine Mounts.
- Excludes - Carburetor, Fuel Pump, Air Cleaner, Fuel Filter, Starter & Solenoid, Charge Generator, Regulator & Wire Harness, Ignition Coil, Distributor, Spark Plug & Leads, Oil Pressure, Water Temperature Gauge Senders, Oil Pressure Switch, High Water Temperature Cut Off Switch, Anti-Dieseling Control, Radiator, Fan Blades & Belt, Exhaust Header, Muffler and Exhaust Tube.

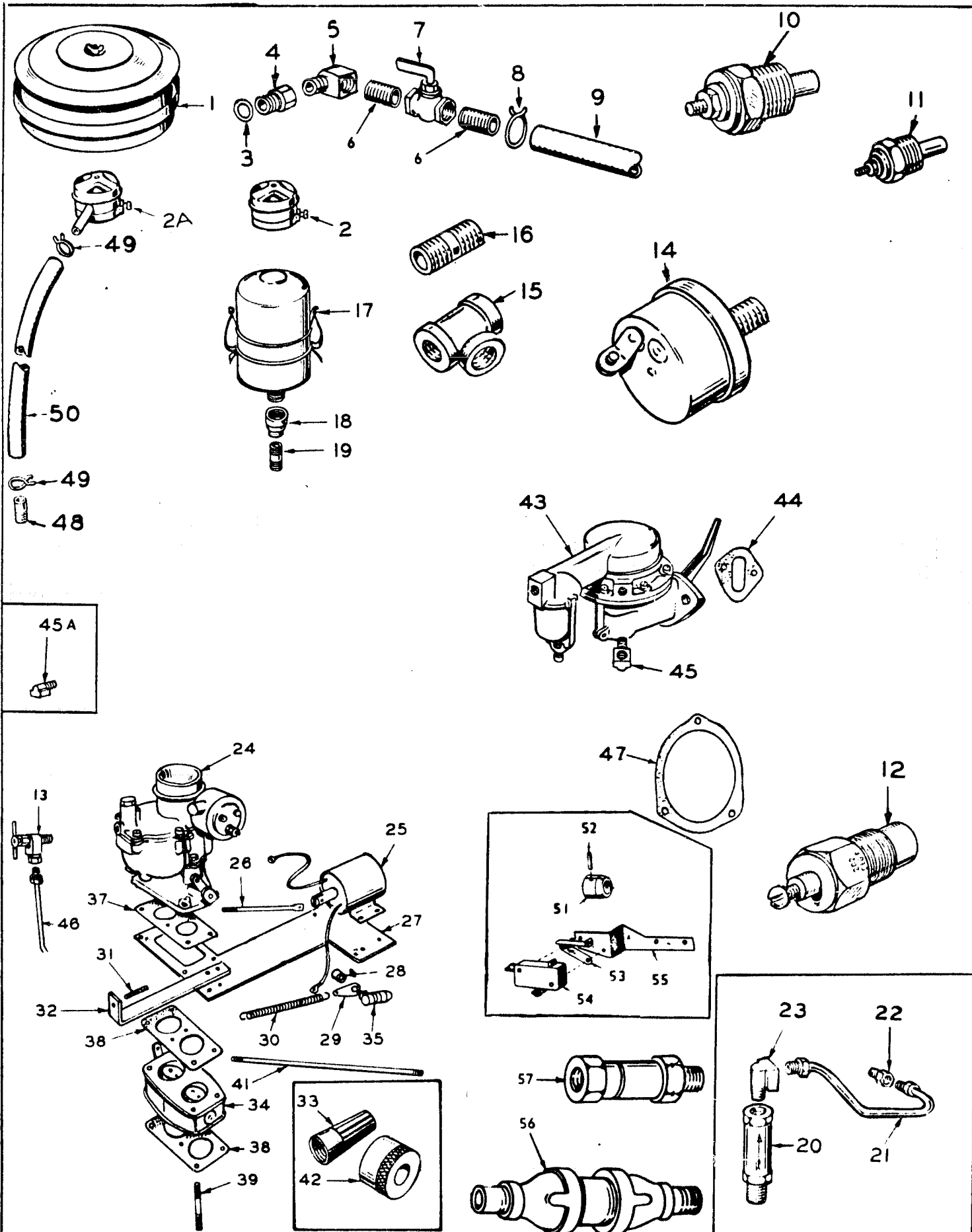


IGNITION GROUP

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	166-282	1	*Distributor Assembly (Delco Remy #1110625)
2	166-280	1	Coil, Ignition - 12 Volt
3	166-281	1	Resistor, Ignition Coil
4	133B158	1	Shield, Ignition Coil Heat.
5	167-127	8	Plug, Spark
6	314P156	8	Suppressor, Spark Plug
7	160A558	10	Nipple, Rubber (9) Distributor, (1) Ignition Coil
8	336A332	1	Lead, Ignition Coil to Resistor - 5-1/4" Long
9	312A58	1	Condenser, Ignition Coil - 0.1 Mfd.
10	CABLE, BATTERY		
	416A77	1	28" Long
	416A21	1	20-1/2" Long

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
11	167A1316	1	Lead, Distributor to Suppressor-7-1/4" Long
12	314P6	1	Suppressor, Distributor
13	167A1312	1	Lead, Suppressor to Ignition Coil
14	LEAD, SPARK PLUG		
	167A1332	2	Cylinder No. 1 & 7
	167A1333	2	Cylinder No. 2 & 4
	167A1334	1	Cylinder No. 3
	167A1335	1	Cylinder No. 5
	167A1336	2	Cylinder No. 6 & 8
15	166-318	1	Cap, Distributor
16	166-319	1	Rotor, Distributor
17	166-320	1	Condenser, Distributor
18	166-321	1	Point Set, Breaker

* - For components not listed, contact your nearest Delco Remy dealer or Delco Remy Div. of General Motors Corp., Anderson, Indiana 46011.



GASOLINE FUEL SYSTEM AND ANTI-DIESELING GROUP

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	140C524	1	Cleaner, Air
	ADAPTER, AIR CLEANER		
2	140A525	1	Prior to Spec C and Begin Spec K
2A	140A549	1	Spec C through J
3	102A34	1	Gasket, Oil Drain Adapter
4	102A33	1	Adapter, Oil Drain
5	502-133	1	Elbow, Oil Drain - 90°
6	505-100	2	Nipple, Oil Drain - 1/2"
7	504P11	1	Valve, Shut-Off - Oil Drain
8	503-197	1	Clamp, Oil Drain Hose
9	503-348	1	Hose, Oil Drain
10	193A108	1	Sender, Oil Pressure Gauge
11	193A104	1	Sender, Water Temp. Gauge
12	309A178	1	Switch, Water Temp. Cut-Off
13	504-85	1	Valve, Shut-Off - Carb. Inlet - Begin Spec M
14	309B64	1	Switch, Oil Pressure
15	505-59	1	Tee, Pipe (1/8") Oil Pressure Switch and Oil Gauge Sender Mounting
16	505-104	1	Nipple, Close (1/8" x 3/4") Oil Pressure Tee to Block
17	140C518	1	Cleaner, Crankcase Breather
18	505-369	1	Coupling, Reducer (1/2" to 1/4") Breather Cleaner to Mounting Nipple
19	505-99	1	Nipple, Close (1/4" x 7/8") Breather Cleaner to Cylinder Head Cover Mounting
20	123A604	1	Valve, Metering - Breather System - Prior to Spec C
21	123B621	1	Line, Breather - Metering Valve to Intake Manifold - Prior to Spec C
22	502-31	1	Connector, Inverted Male - Breather Line to Intake Manifold - Prior to Spec C
23	502-39	1	Elbow, Inverted Male - Breather Line to Metering Valve - Prior to Spec C
24	141C636	1	Carburetor Assembly - (Order Component parts by description for Carburetor Model 28ADA10C from Zenith Carburetor Div. of Bendix Aviation Corp., Detroit, Michigan)
25	307B259	1	Solenoid and Lead Assembly, Anti-Dieseling
26	145A124	1	Link, Solenoid
27	145A186	1	Bracket, Solenoid Mounting
28	150A302	1	Bushing, Throttle Spring Link to Ball Joint
29	145A118	1	Link, Throttle Spring
30	145A158	1	Spring, Throttle
31	150A96	1	Stud, Throttle Spring Adjusting
32	145A187	1	Bracket, Throttle Spring

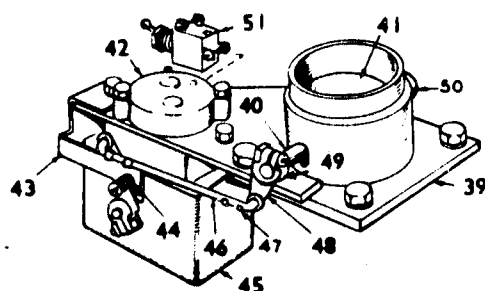
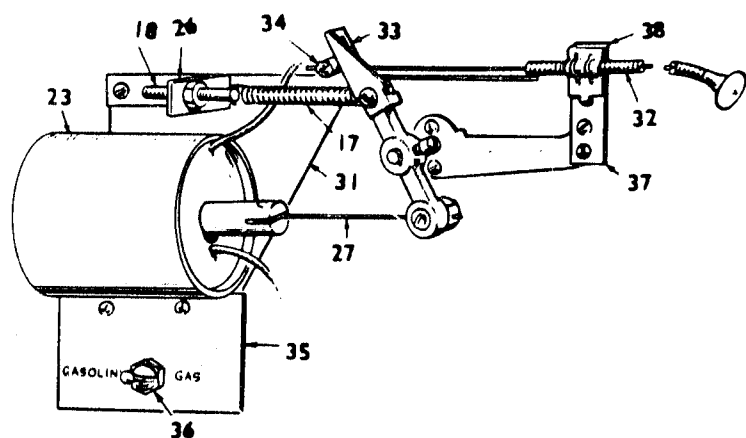
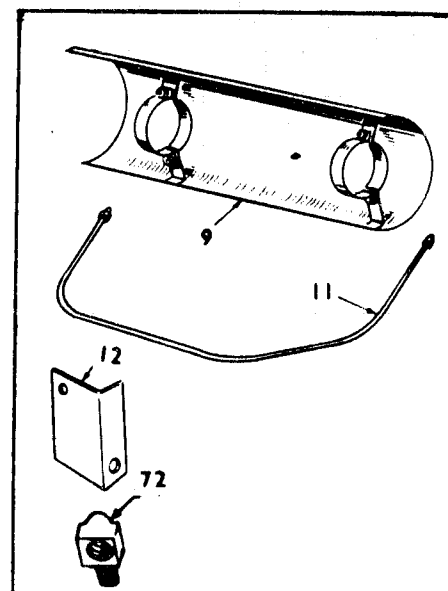
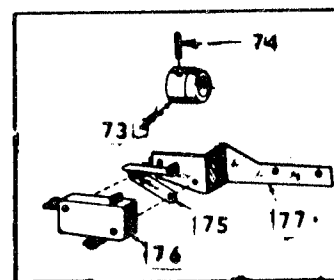
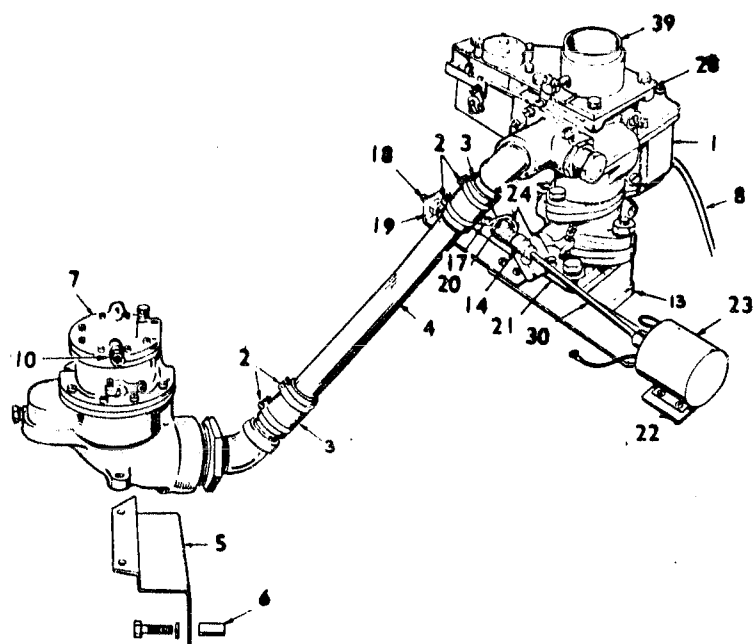
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
33	332-614	2	Connector Wire
34	BODY ASSEMBLY, THROTTLE		
	145B188	1	Prior to Spec H
	145B328	1	Spec H through L
	145B410	1	Begin Spec M
35	150A638	3	Joint, Ball - (1) Solenoid Link, (2) Governor Control Stud
37	145A189	1	Gasket, Carburetor to Solenoid Mounting Bracket
38	145A185	2	Gasket, Throttle Body - (1) Upper, (1) Lower
39	520A457	4	Stud, Carburetor & Throttle Body Mounting (5/16 x 3-1/8)
41	STUD, GOVERNOR CONTROL		
	520A537	1	Prior to Spec H - 1/4 x 9-3/8"
	520A629	1	Spec H through L - 1/4 x 9-7/8"
	520A517	1	Begin Spec M - 1/4 x 7"
42	141A372	1	Knob, Choke - Carburetor
43	149C730	1	Pump Assembly, Fuel
44	149A736	1	Gasket, Fuel Pump Mounting
	ELBOW, INVERTED MALE		
45	502-4	1	Fuel Pump Outlet
45A	502-4	1	Carburetor Inlet - Prior to Spec M
46	159C685	1	Line, Fuel - Pump to Carburetor
47	151B184	1	Gasket, Governor Flange
48	505-10	1	Nipple, Half - 1/4 x 1" - Breather Hose Adapter - Begin Spec C
49	503-131	2	Clamp, Breather Hose - Begin Spec C
50	503-119	1	Hose, Breather - Begin Spec C
51	309A132	1	Cam, Micro Switch - Begin Spec F
52	516-86	1	Pin, Roll - 1/8" x 3/4" - Begin Spec F
53	309P133	1	Actuator, Micro Switch - Begin Spec F
54	309A155	1	Switch, Micro - Begin Spec F
55	309A131	1	Bracket, Micro Switch Mounting - Begin Spec F
56	123A904	1	Flame Arrestor Assy. - Spec H through J
57	123A960	1	Crankcase Vent - Begin Spec K
	193190R91	1	★Filter Assembly, Oil - Includes Element (Not Illustrated)
	193187R91	1	★Element, Oil Filter (Not Illustrated)
	GD422C7545	1	†Governor Assembly - Prior to Spec D (Not Illustrated)
	GD427C7145	1	†Governor Assembly - Spec D through G (Not Illustrated)
	347003R91	1	★Governor Assembly - Spec H through L (Novi #4050078) (Not Illustrated)
	151-371	1	*Governor Assembly - Begin Spec M (Pierce) (Not Illustrated)
	141-640	1	Repair Kit, Carburetor
	141-641	1	Gasket Kit, Carburetor

★ - Part number is International, order direct from nearest dealer.

† - Part number is Hoof, order direct from Hoof Products Co., Chicago, Ill.

* - Order parts or components for this governor (International #678045C91) from the International Harvester Co., 401 North Michigan Ave., Chicago, Illinois 60611.

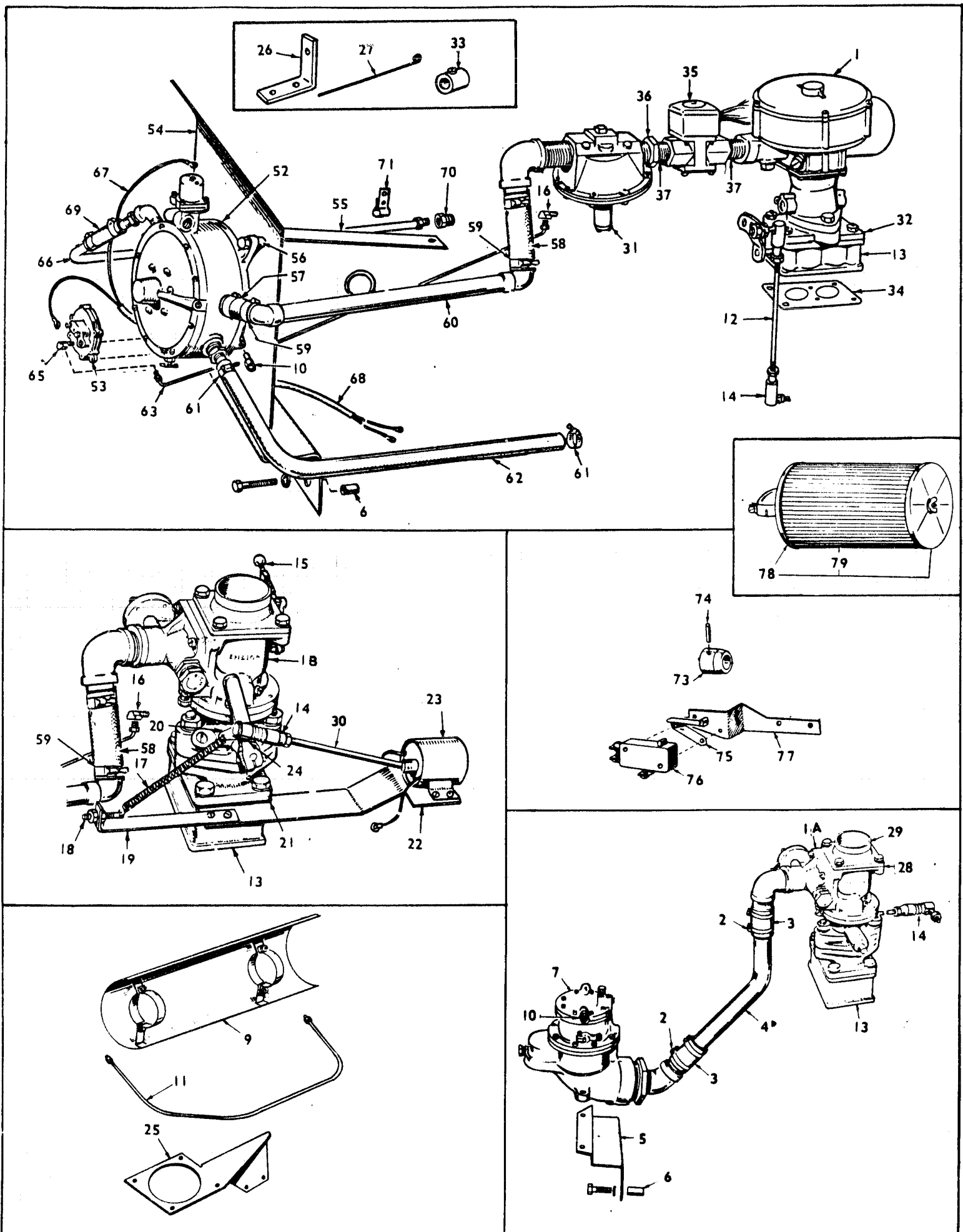
SPECIAL FUEL SYSTEM GROUP (GAS-GASOLINE)
(Spec A through K)-OPTIONAL



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	* CARBURETOR - GAS-GASOLINE FUEL		
	148C371	1	Prior to Spec E (Ensign #9235)
	148C431	1	Begin Spec E (Ensign #CCA200A116)
2	503-107	4	Clamp, Hose
3	503-355	2	Hose - 1-1/4 I.D. x 3" Long
4	148A381	1	Tube, Fuel Line - Regulator to Carburetor
5	148C365	1	Bracket, Regulator Mounting
6	403A533	2	Spacer, Regulator Mounting Bracket
7	148A310	1	*Regulator (Ensign #RVE200A104-2)
8	149A768	1	Line, Fuel Pump to Carburetor
9	148C383	1	Shield Assembly, Heat
10	148A107	1	Vent Assembly, Gas Regulator
11	130B451	1	Line, Oil Cooler to Cylinder Block
12	153A275	1	Bracket, Choke
13	BODY ASSEMBLY, THROTTLE		
	145A188	1	Prior to Spec H
	145B328	1	Spec H through K
14	150A638	As Req.	Joint, Ball
17	145A158	2	Spring, Throttle
18	150A96	2	Stud, Throttle Spring Adjusting
19	145A187	1	Bracket, Throttle Spring
20	145A118	1	Link, Throttle Spring
21	145A189	1	Gasket, Carburetor Solenoid Mounting Bracket
22	145C202	1	Bracket, Solenoid Mounting
23	307B259	1	Solenoid & Lead Assembly, Anti-Dieseling
24	150A302	1	Bushing, Throttle Spring Link to Ball Joint
26	145A194	1	Bracket, Choke Spring

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
27	145A205	1	Link, Solenoid to Choke
28	145A195	1	Gasket - Carburetor Air Inlet or Choke
30	145A124	1	Link, Solenoid
31	145C203	1	Bracket, Choke Solenoid
32	153-110	1	Choke, Manual
33	145A213	1	Extension, Choke Arm
34	145A165	1	Stop, Choke Wire
35	308A150	1	Bracket, Switch Mounting
36	308P88	1	Switch, Choke (Gas or Gasoline)
37	153A274	1	Bracket, Choke Wire
38	518B176	1	Clip, Choke Wire
39	153B292	1	Adapter Assembly, Choke
40	153A293	1	Shaft, Choke
41	153A281	1	Plate, Choke
42	153A49	1	Cover Assembly, Choke (12 Volt)
43	153A295	1	Bracket, Choke Lock
44	232A979	1	Spring, Choke Lock
45	153A213	1	Choke, Automatic
46	153A294	1	Rod, Choke
47	518-5	2	Clip, Choke Rod End
48	153A283	1	Arm, Choke Over-Ride
49	153A282	1	Arm, Choke
50	148A430	1	Counterweight, Choke Shaft
51	308A68	1	Switch, Choke
72	502-42	1	Elbow, Inverted Male - Carb. Inlet
73	309A132	1	Cam, Micro Switch - Begin Spec F
74	516-86	1	Pin, Roll - 1/8" x 3/4" - Cam - Begin Spec F
75	309P133	1	Actuator, Micro Switch - Begin Spec F
76	309A155	1	Switch - Micro - Begin Spec F
77	309A131	1	Bracket, Micro Switch Mounting - Begin Spec F

* - For components contact your nearest Ensign Carburetor dealer or Ensign Carburetor Div. of American Bosch, 930 North York Road, Room 206, Hinsdale, Illinois.



SPECIAL FUEL SYSTEM GROUP (Gas Only and LPG Only) - OPTIONAL

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	148P592	1	**Carburetor - Begin Spec K (Impco #200)
1A	*CARBURETOR - NATURAL GAS FUEL		
	148C372	1	Prior to Spec E (Ensign #9263)
	148C433	1	Spec E through J (Ensign #200A120)
1B	*CARBURETOR - LPG FUEL		
	148C372	1	Prior to Spec C (Ensign #9263)
	148C424	1	Spec C and D (Ensign #9496)
	148C434	1	Spec E through K (Ensign #9505)
2	503-107	4	Clamp, Hose - Natural Gas Fuel Plants - Prior to Spec K
3	503-355	2	Hose - 1-1/4 I.D. x 3" Lg. Natural Gas Fuel Plants - Prior to Spec K
4	148A382	1	Tube, Fuel Line - Regulator to Carburetor - Prior to Spec K
5	148C365	1	Bracket, Regulator Mounting - Natural Gas Fuel Plants
6	SPACER, REGULATOR MOUNTING BRACKET		
	403A533	2	Prior to Spec H
	403A851	2	Begin Spec H
7	148A310	1	Regulator, Gas - Natural Gas Fuel Plants - Prior to Spec K
9	148C383	1	Shield Assembly, Heat - Natural Gas Fuel Plants - Prior to Spec K
10	148A107	1	Vent Assembly, Gas Regulator - Prior to Spec L
11	130B451	1	Line, Oil Cooler to Cylinder Block - Prior to Spec K
12	STUD, THROTTLE		
	520A629	1	Prior to Spec M
	520A517	1	Begin Spec M
13	BODY ASSEMBLY, THROTTLE		
	145A188	1	Prior to Spec H
	145B328	1	Spec H through L
	145B410	1	Begin Spec M
14	150A638	As Req.	Joint, Ball
15	153A85	1	Rod Assembly, Choke - LPG Plants Prior to Spec E
16	ELBOW, VACUUM SWITCH LINE TO CARBURETOR - LPG PLANTS		
	502-2	1	Prior to Spec C
	502-41	1	Spec C through G
17	145A158	1	Spring, Throttle - LPG Plants Spec C through K and Natural Gas Plants Begin Spec E
18	150A96	1	Stud, Throttle Spring Adjusting LPG Spec C through K and Natural Gas Plants Begin Spec E
19	145A187	1	Bracket, Throttle Spring - LPG Plants Spec C through K
20	145A118	1	Link, Throttle Spring - LPG Plants Spec C through K
21	145A189	1	Gasket, Carburetor to Solenoid Mounting Bracket - LPG Plants Spec C through K
22	145A186	1	Bracket, Solenoid Mtg. - LPG Plants Spec C through K

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
23	307B259	1	Solenoid & Lead Assembly, Anti-Dieseling - LPG Plants Spec C through K - Natural Gas Plants Prior to Spec E
24	150A302	1	Bushing, Throttle Spring Link to Ball Joint - LPG Plants Spec C through K
25	145C193	1	Bracket, Choke Sol. - Natural Gas Plants Prior to Spec E
28	145A195	1	Gasket - Carburetor Air Inlet or Choke - Natural Gas Fuel Plants
29	153B302	1	Choke Assembly, Air - Natural Gas Plants - Spec E through J
30	145A124	1	Link, Solenoid - LPG Fuel Plants - to Spec L
31	VALVE, THERMAL		
	148-601	1	Natural Gas Plants
	148A636	1	LPG Fuel Plants
32	145P358	1	Adapter, Carburetor - Begin Spec K
33	148P620	1	Collar, Shaft - Spec K only
34	145A185	2	Gasket, Throttle Body - Begin Spec K
35	307P312	1	Valve, Solenoid (12 V) - LPG Plants Begin Spec L
36	505-129	1	Bushing, Reducer (1 x 3/4) - Thermal Valve Outlet
37	505-102	2	Nipple (3/4 x 1-3/8") - Solenoid Valve Inlet & Outlet - LPG Plants Begin Spec L
52	148A368	1	*Regulator, LPG - LPG Plants (Ensign #RDB220A2)
53	148A367	1	Switch, Vacuum - Regulator - LPG Plants - Prior to Spec H
54	148C366	1	Bracket, Regulator - LPG Plants
55	148C369	1	Brace, Regulator Mounting - LPG Plants
56	110A300	3	Spacer, Regulator to Bracket Mounting - LPG Plants
57	503-350	1	Hose, Fuel - 3" Lg. - LPG Plants
58	503-351	1	Hose, Fuel - 8" Lg. - LPG Plants
59	503-189	4	Clamp, Fuel Hose - LPG Plants
60	148A385	1	Line, Fuel - LPG Plants
61	503A49	4	Clamp, Water Hose - LPG Plants
62	503-352	1	Hose, Water Inlet - 20" Lg. - LPG Plants
63	LINE, VACUUM SWITCH - LPG PLANTS		
	148A414	1	Prior to Spec C
	148A378	1	Spec C through G
65	502-2	1	Elbow, Vacuum Line to Vacuum Switch - LPG Plants - Prior to Spec H
66	131A122	1	Line, Water Outlet - LPG Plants
67	336A1093	1	Lead, Solenoid to Vacuum Switch - LPG Plants - Prior to Spec H
68	338B224	1	Harness, Wiring - LPG Plants - Prior to Spec H

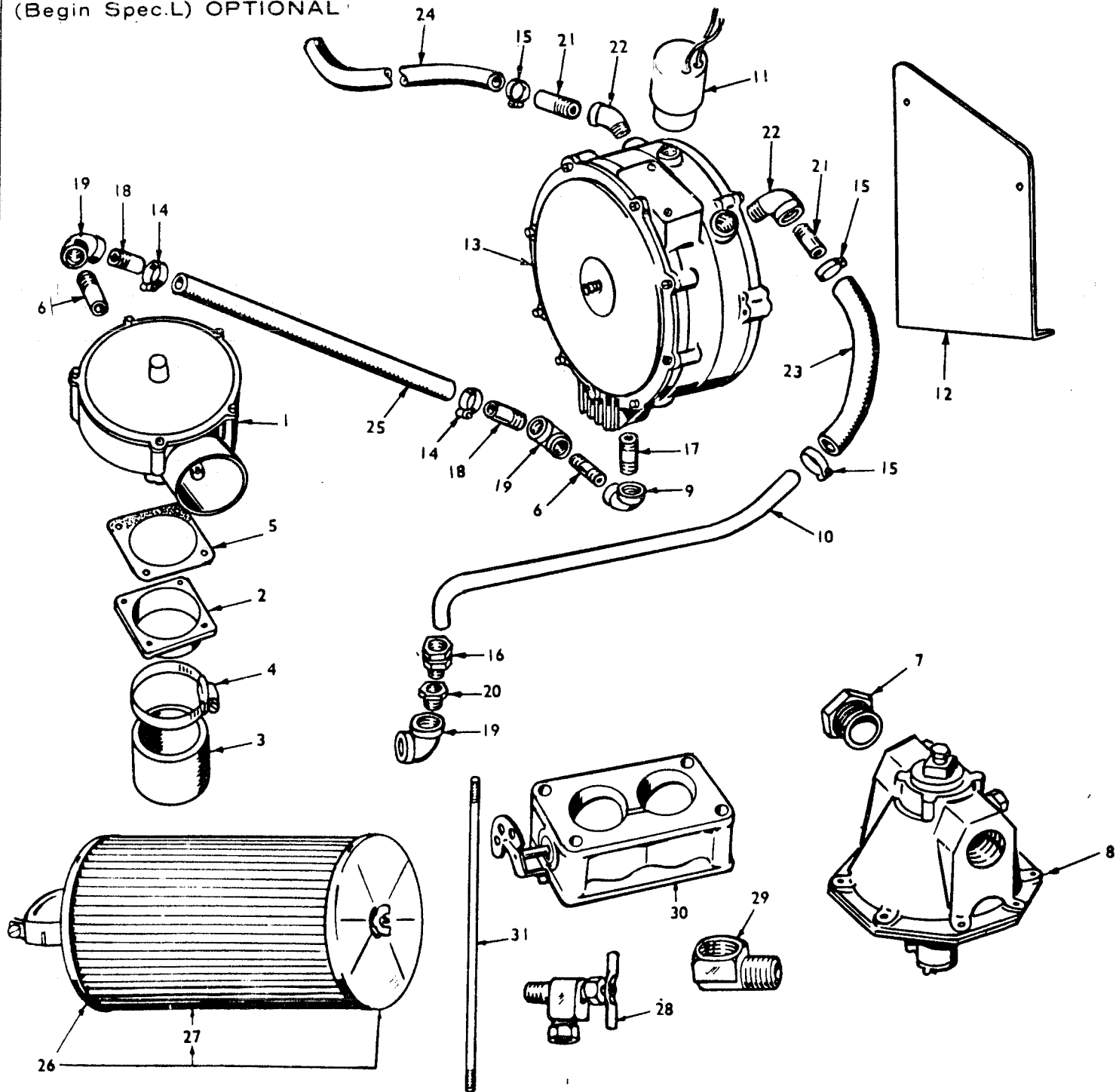
** - For components contact your nearest Impco dealer or Impco Division, 16916 Gridley Place, Cerritos, California 90701.

* - For components contact your nearest Ensign Carburetor dealer or Ensign Carburetor Div. of American Bosch, 930 North York Road, Room 206, Hinsdale, Illinois.

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTIONS
69	503-353	1	Hose, Water Outlet - 2" Lg. - LPG Plants
70	502-227	1	Connector, Water Outlet Hose - LPG Plants
71	130B450	1	Bracket, Water Line - LPG Plants
73	309A132	1	Cam, Micro Switch - Spec F through K
74	516-86	1	Pin, Roll - 1/8" x 3/4" - Cam - Spec F through K

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTIONS
75	309P133	1	Actuator, Micro Switch - Spec F through K
76	309A155	1	Switch, Micro - Spec F through K
77	309A131	1	Bracket, Micro Switch Mounting - Spec F through K
78	140P851	1	Cleaner, Air - Gas only Plants - Begin Spec K
79	140-871	1	Element, Air Cleaner --Gas only Plants - Begin Spec K

**SPECIAL FUEL SYSTEM GROUP- Gas-Gasoline and LPG-Gasoline
(Begin Spec.L) OPTIONAL**



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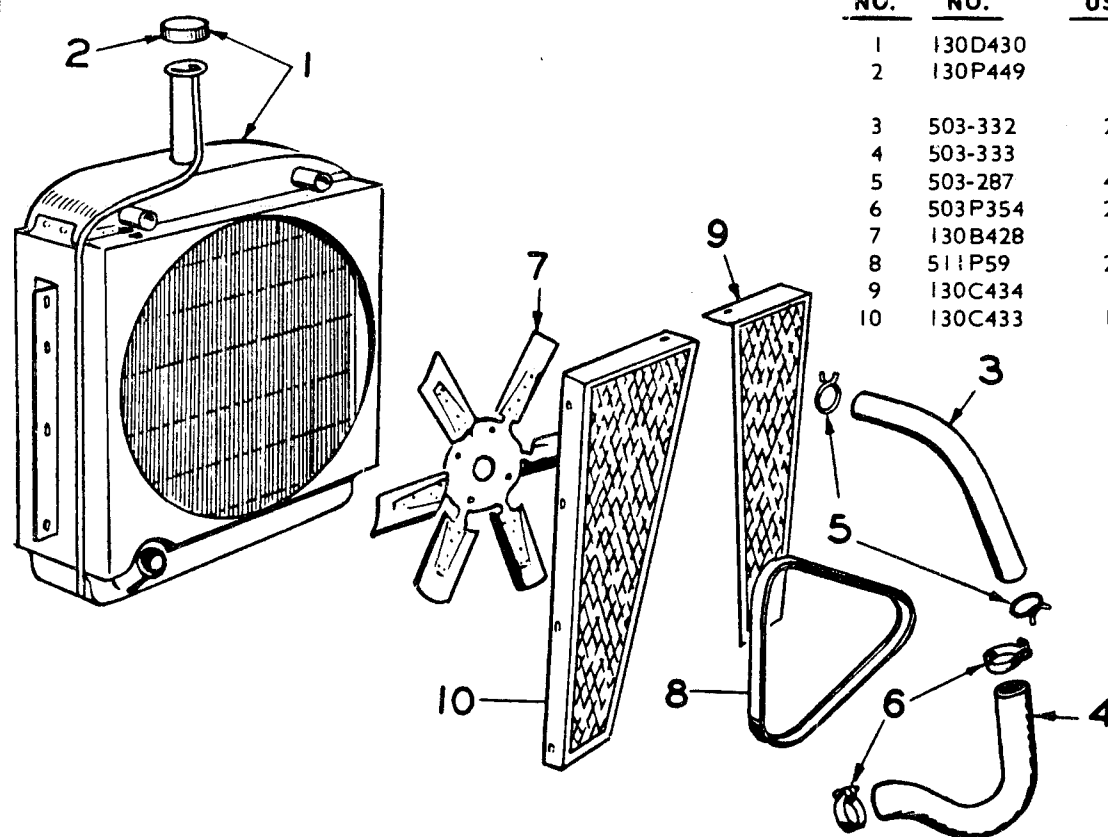
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	148P598	1	**Carburetor, Gas (Mixer) (Impco #200)
2	145P396	1	Adapter, Carburetor
3	503-550	1	Hose, Adapter
4	503-354	2	Clamp, Hose
5	*	1	Gasket, Carburetor Adapter
6	505-102	1	Nipple, Gas Regulator (3/4 x 1-3/8")
7	505-129	1	Bushing, Reducer (1 x 3/4") - Gas-Gasoline only
8	148P601	1	**Regulator, Gas - Gas-Gasoline only (Impco #T-30)
9	505-356	1	Elbow, Reducer (1 x 3/4") - LPG-Gasoline only
10	131B192	1	Line, Water - LPG-Gasoline only
11	307P268	1	Valve, Solenoid - LPG-Gasoline only
12	148-631	1	Bracket, Converter - LPG-Gasoline only
13	148C625	1	**Converter - LPG-Gasoline only (Impco Mdl. EB)
14	503-382	2	Clamp, Hose - LPG-Gasoline only
15	503-189	4	Clamp, Hose - LPG-Gasoline only
16	502-227	1	Connector - LPG-Gasoline only
17	505-107	1	Nipple (1 x 2") - LPG-Gasoline only
18	505-71	2	Nipple, Half (3/4 x 1-1/4") - LPG-Gasoline only

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
19	505-132	3	Elbow (3/4") - LPG-Gasoline only
20	505-21	1	Bushing, Reducer (3/4 x 1/2") - LPG-Gasoline only
21	505-135	2	Nipple, Half (3/8 x 1-1/4") - LPG-Gasoline only
22	505-119	2	Elbow, Street (3/8") - LPG-Gasoline only
23	As Req.		Hose (17" of Bulk Hose #503-386) - LPG-Gasoline only
24	As Req.		Hose (8-1/2" of Bulk Hose #503-386) - LPG-Gasoline only
25	As Req.		Hose (11" of Bulk Hose #503-249) - LPG-Gasoline only
26	140P851	1	Cleaner, Air
27	140-871	1	Element, Air Cleaner
28	502-42	1	Elbow, Inverted Male - Carb. Inlet - Prior to Spec M - Gas-Gasoline only
29	504-85	1	Valve, Shut-Off - Carb. Inlet - Begin Spec M - Gas-Gasoline only
30	BODY ASSEMBLY, THROTTLE - Gas-Gasoline Only		
	145B328	1	Spec L Only
	145B410	1	Begin Spec M
31	STUD, THROTTLE - Gas-Gasoline Only		
	520A629	1	Spec L Only
	520A517	1	Begin Spec M

* - Order by description giving complete Model, Spec, and Serial Number.

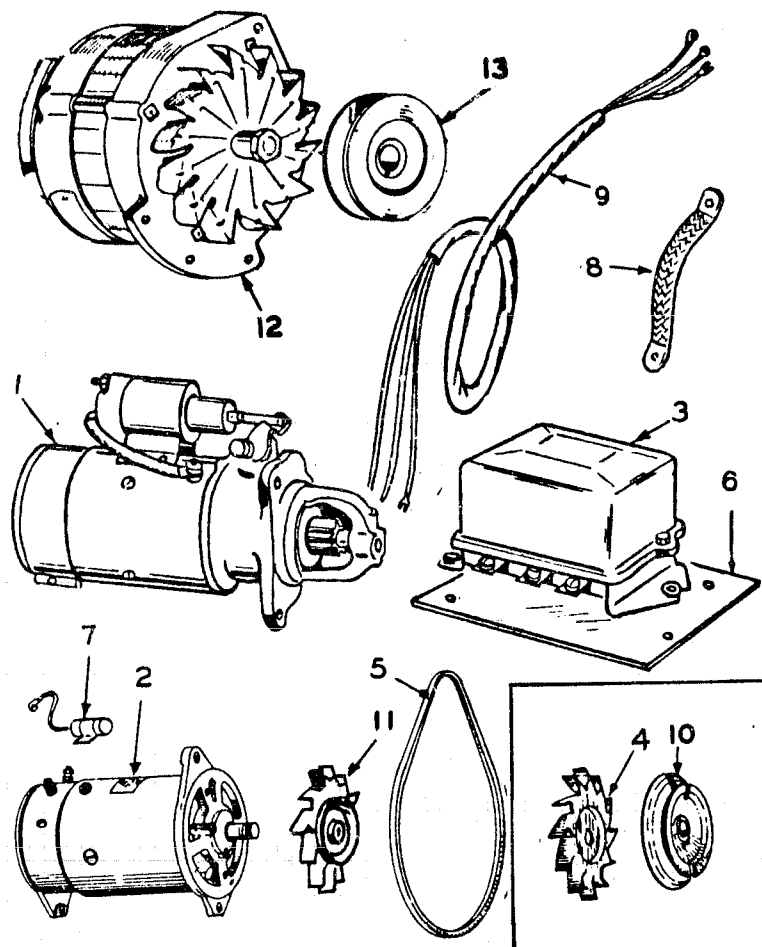
** - For components contact your nearest Impco dealer or Impco Division, 16916 Gridley Place, Cerritos, California 90701.

COOLING SYSTEM GROUP



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	130D430	1	Radiator - Includes Cap
2	130P449	1	Cap, Radiator - 7 lbs. Pressure
3	503-332	2	Hose, Radiator - Upper
4	503-333	1	Hose, Radiator - Lower
5	503-287	4	Clamp, Hose - Upper Hoses
6	503P354	2	Clamp, Hose - Lower Hose
7	130B428	1	Fan Only, Cooling
8	511P59	2	Belt, Fan Drive
9	130C434	1	Guard, Fan - LH Side
10	130C433	1	Guard, Fan - RH Side

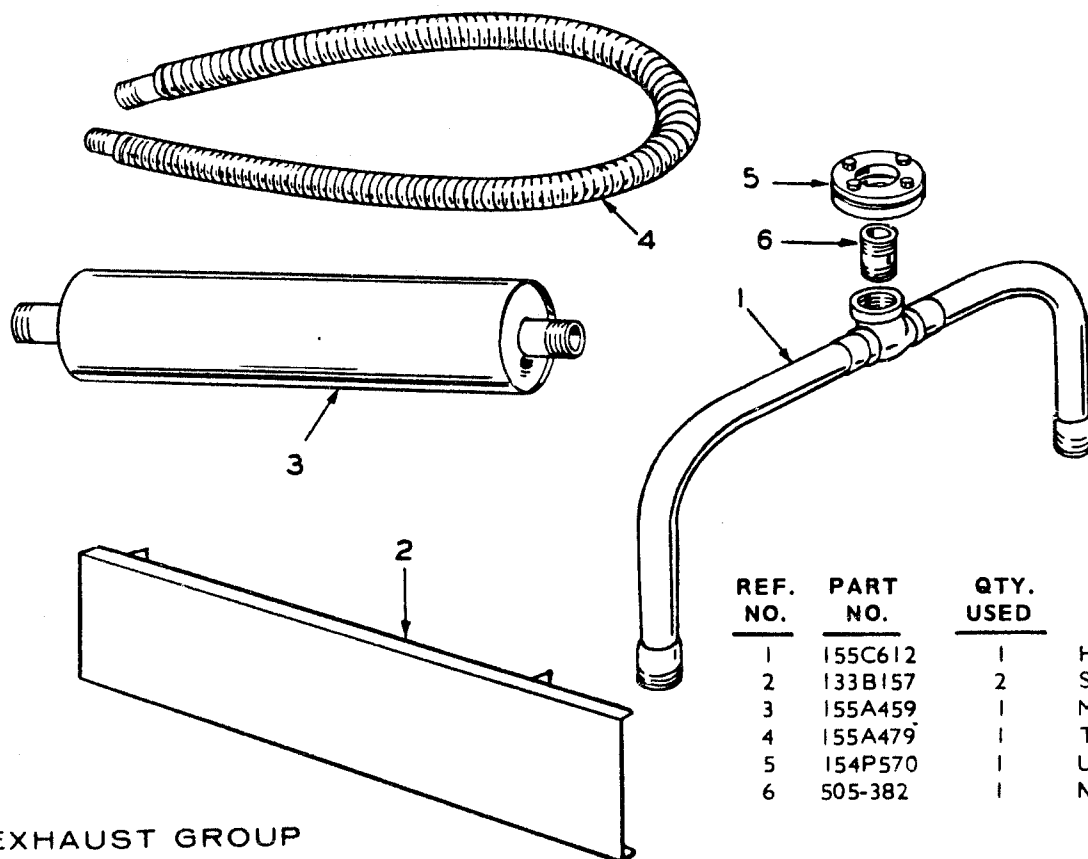
STARTING MOTOR AND BATTERY CHARGE GENERATOR GROUP



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	191D486	1	**Starter - 12-Volt (Delco Remy #1113167-H)
2	191P251	1	**Generator, 12-Volt - To Spec K (Delco Remy #1102044)
3	191A228	1	Regulator, Voltage - Prior to Spec K
4	191A253	1	Fan, Generator Pulley - Spec A Models Only
5	511P25	1	Belt, Generator
6	191A267	1	Bracket, Voltage Regulator Mounting - Prior to Spec K
7	312A58	2	Condenser - 0.1 Mfd. - (1) Charge Generator, (1) Voltage Regulator
8	337A49	2	Strap, Ground (Braided) - 8-7/16" Long
9	338B208	1	Harness Assembly, Charge Regulator - To Spec K
10	191C266	1	Pulley, Generator - Spec A Models Only
11	191C296	1	Fan and Pulley, Spec B through J
12	191B665	1	*Alternator, Charging (Includes Regulator) - Begin Spec K (Motorola #70D44039B)
13	191B649	1	Pulley, Alternator - Begin Spec K

* - For components contact your nearest Motorola dealer or Motorola Automotive Products Inc., 9401 W. Grand Ave., Franklin Park, Illinois 60131.

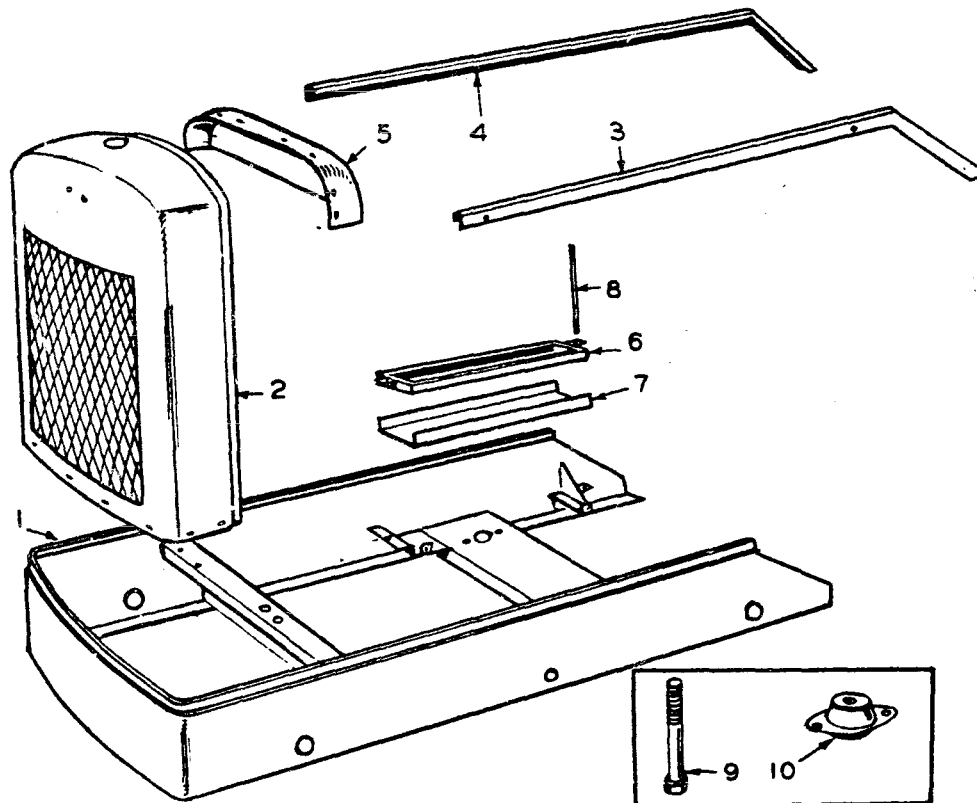
** - For components contact your nearest Delco Remy dealer or Delco Remy Div. of General Motors Corp., Anderson, Indiana 46011.



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	155C612	1	Header Assembly, Exhaust
2	133B157	2	Shield, Exhaust Manifold Heat
3	155A459	1	Muffler, Exhaust
4	155A479	1	Tube, Flexible Exhaust
5	154P570	1	Union, Manifold Flange
6	505-382	1	Nipple, Exhaust (3" x 2-5/8")

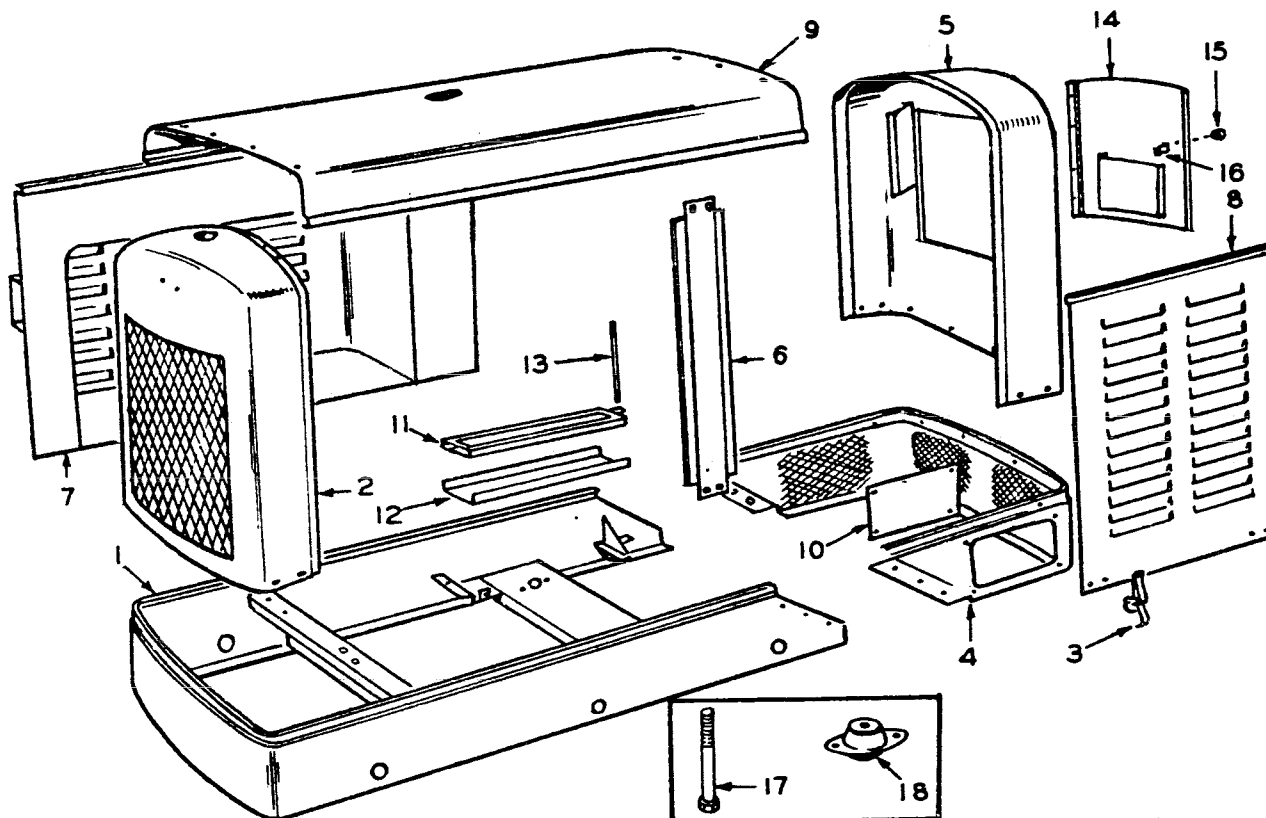
EXHAUST GROUP

A13



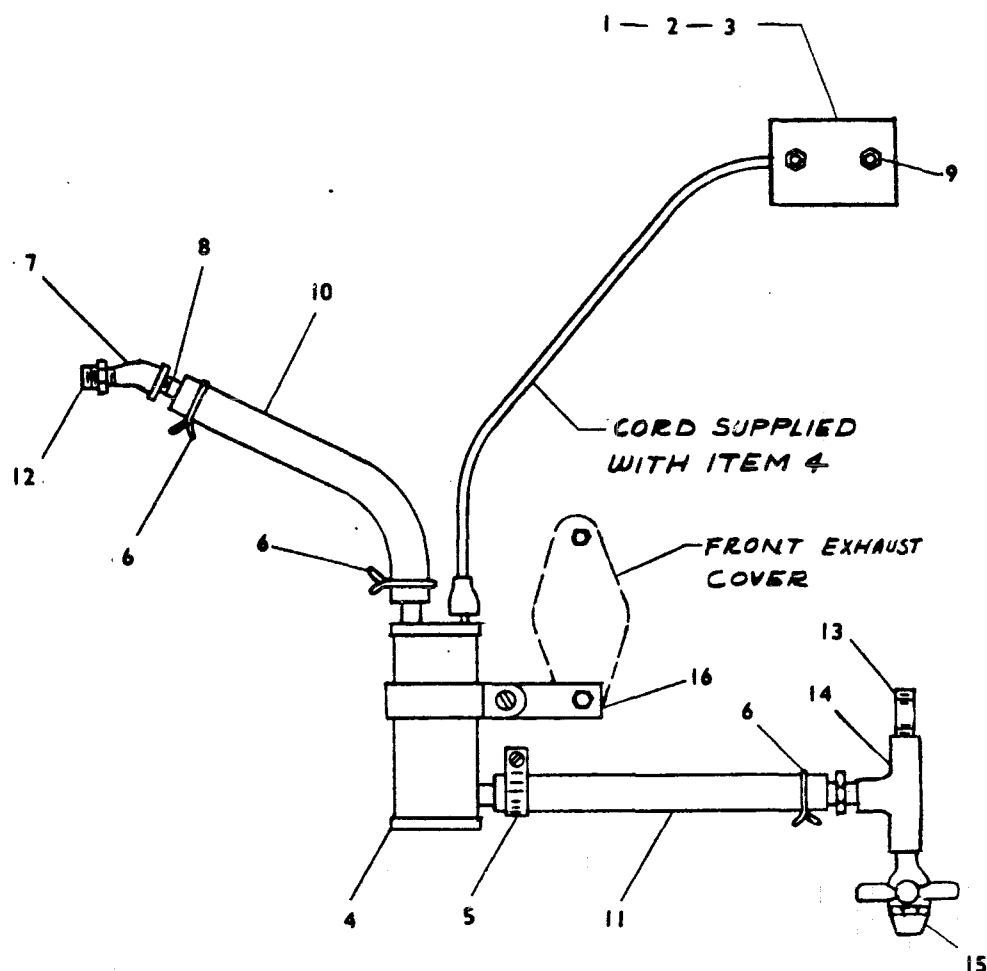
MOUNTING GROUP (Unhoused Plants Only)

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	403D555	1	Chassis, Mounting
2	405D1153	1	Panel, Front End
3	403C562	1	Trim, Chassis - RH Side
4	403C563	1	Trim, Chassis - LH Side
5	405C1165	1	Hood, Radiator Extension
6	416B338	1	Frame, Battery Hold-down
7	416B358	1	Tray, Battery
8	520A231	2	Stud, Battery Hold-down
9	402A214	2	Bolt, Front Engine Mounting
10	402P209	2	Rubber, Generator End Mounting



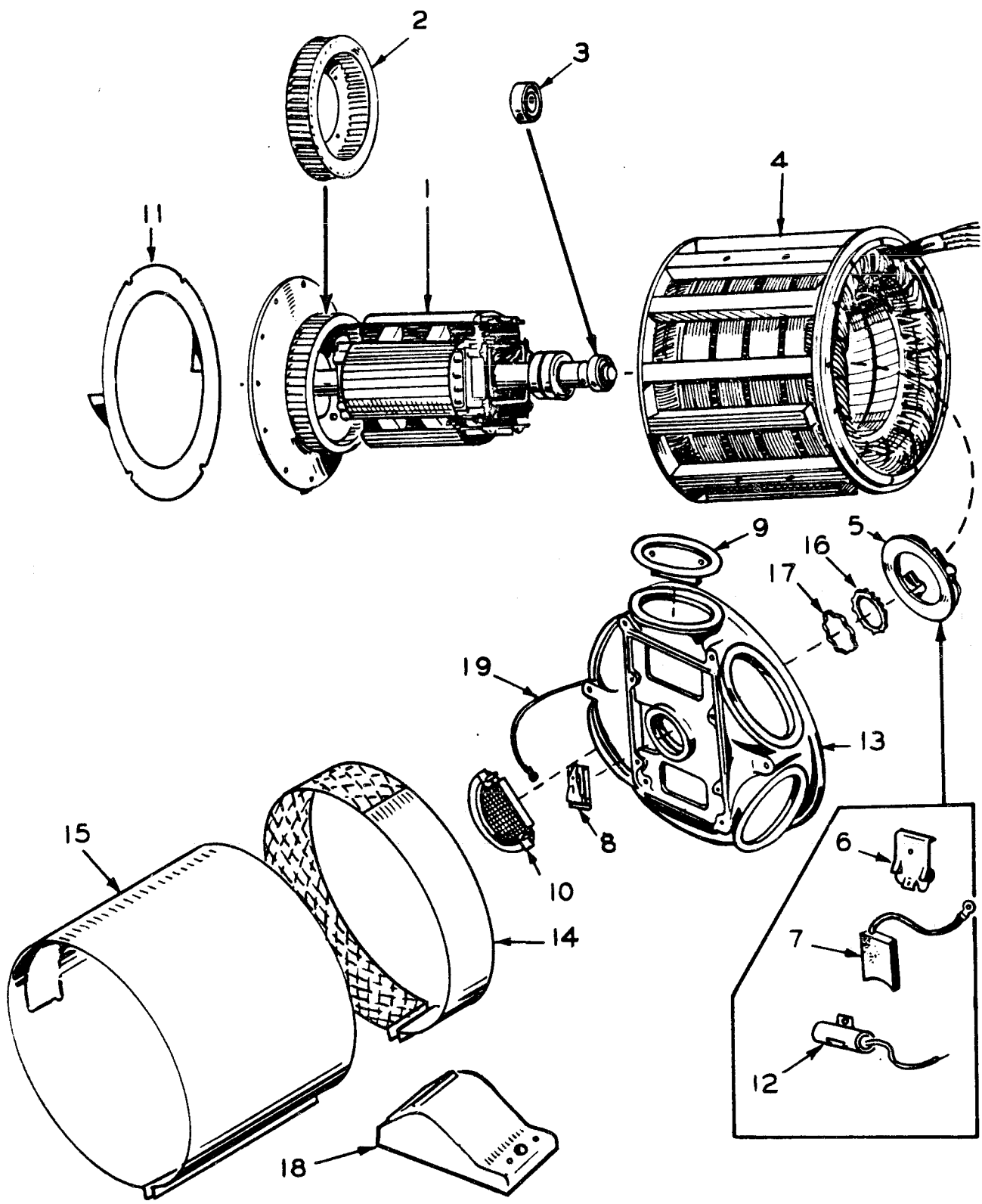
HOUSING GROUP (Housed Plants Only)

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	403D555	1	Chassis, Mounting
2	405D1153	1	Panel, Front
3	406A105	8	Clamp, Hold-down - Side Panels
4	403D556	1	Chassis, Mounting - Rear Section
5	405D1154	1	Panel, Rear - Excludes Door
6	405C1169	2	Support, Top
7	405D1155	2	Panel, Door - Housing Side - Includes Handles
8	405C1151	2	Panel, Side
9	405D1156	1	Panel, Top
10	403B566	1	Panel, Chassis
11	416B338	1	Frame, Battery Hold-down
12	416B358	1	Tray, Battery
13	520A231	2	Stud, Battery Hold-down
14	405B932	1	Door, Rear Panel Control
15	406-2	1	Knob, Panel Door
16	406-88	1	Catch, Panel Door
17	402A214	1	Bolt, Front Engine Mounting
18	402P209	2	Rubber, Generator End Mounting



WATER JACKET HEATER GROUP- OPTIONAL

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	309P29	1	Thermostat
2	333A12	1	Box, Thermostat
3	333A13	1	Cover, Thermostat Box
4	333P52	1	Heater, Tank Type
5	503-183	1	Clamp, Hose
6	503-131	3	Clamp, Hose
7	505-119	1	Elbow, Street (3/8" x 45°)
8	505-135	1	Nipple, Half (3/8 x 1-1/2")
9	520A446	2	Stud, Thermostat Box Mtg.
10		1	Hose (Order 8" of Bulk Hose #503P386)
11		1	Hose (Order 11" of Bulk Hose #503P386)
12	505-19	1	Bushing, Reducer (1/2 x 3/8")
13	505-101	1	Nipple, Close (1/4")
14	504-184	1	Tee, Pipe (1/4")
15	504-3	1	Valve, Drain
16	130A755	1	Bracket, Heater Support



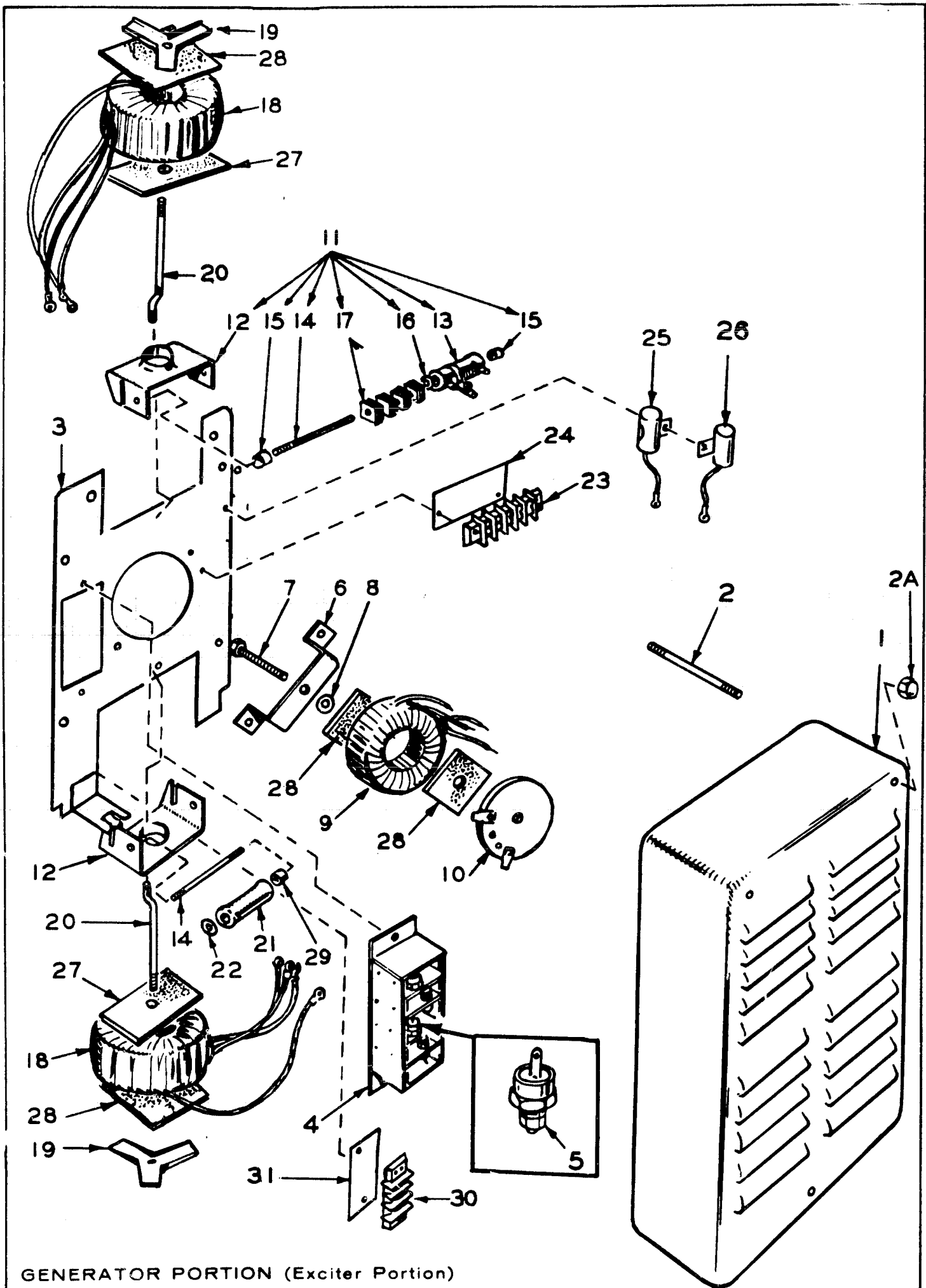
GENERATOR GROUP (Alternator Portion)

NOTE: Output Terminal Box, Cover and Internal Parts are listed with the AC Output Control Group (Mounts on Side of Generator).

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	*	1	Rotor Assy., Wound - Includes Bearing, Blower and Drive Assembly
2	205C49	1	Blower
3	510P63	1	Bearing
4	*	1	Stator Assembly, Wound
5	212C248	1	Rig Assembly, Brush - Includes Brushes & Springs
6	212B1105	4	Spring, Brush
7	214A56	4	Brush
8	150A717	1	Switch Assembly, Overspeed
			COVER, END BELL OPENING - INCLUDES LATCH & BRACKET
9	232B1254	2	Plain
10	232B1253	2	Screened

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
11	234C84	1	Scroll, Air
12	312A17	1	Condenser - 0.5 Mfd.
13	211E131	1	Bell, End - Alternator to Exciter
14	234C83	1	Band, Generator - Front Portion - Narrow
15	BAND, GENERATOR - REAR PORTION - WIDE		
	234D81	1	50KB Single Phase and 60KB Models
	234D82	1	50KB 3 Phase Models
16	232A1186	1	Holder, Bearing - Anti-Rotation
17	232A1187	1	Spring, Bearing Holder - Anti-Rotation
18	232C1556	2	Pad, Generator Mounting
19	336A1082	1	Lead, Overspeed Switch

* - Order by description, giving Model, Spec and Serial Number (ONAN Nameplate).

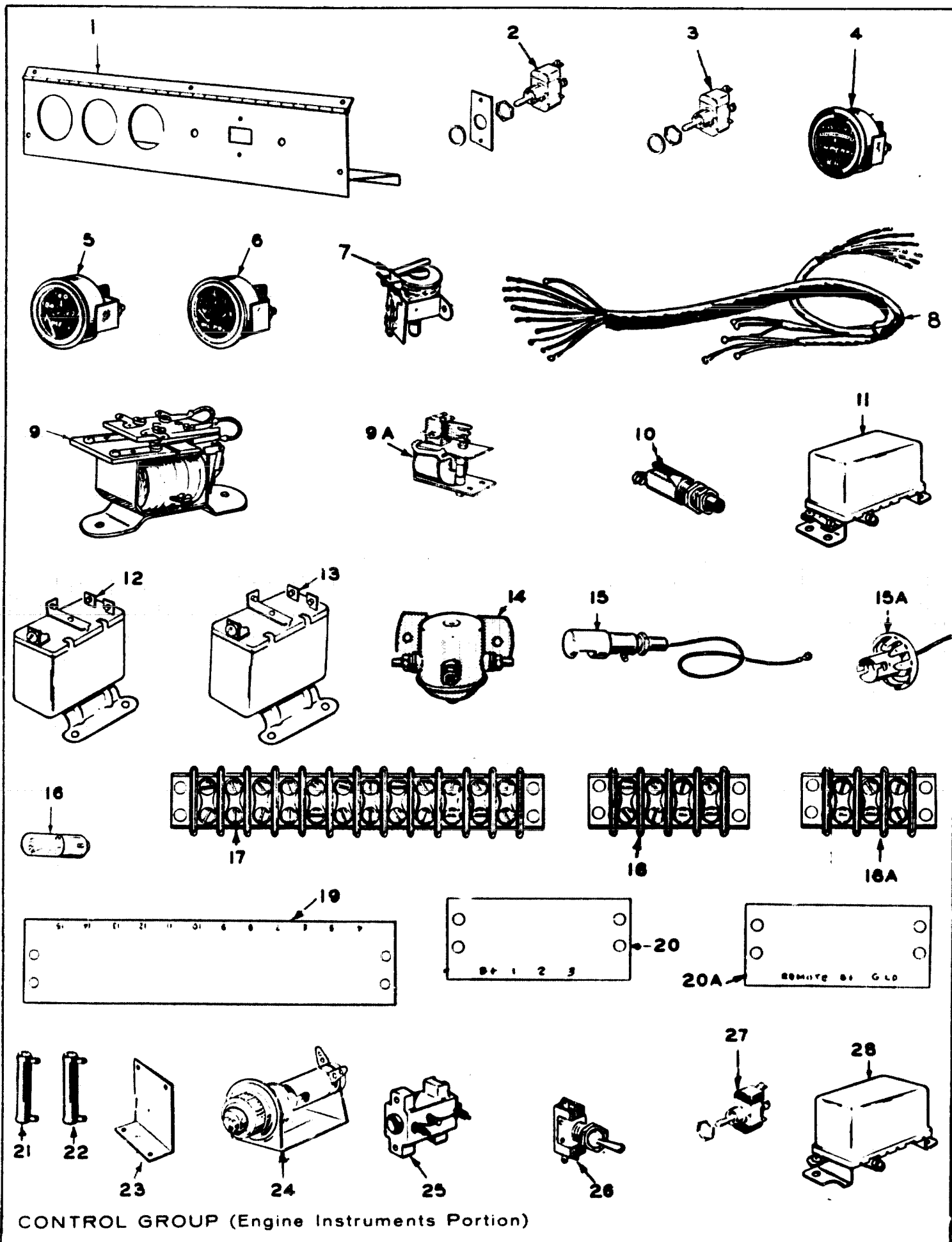


B5

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	COVER, EXCITER		
	234D59	1	Spec A Models Only
	234D106	1	Begin Spec B
2	520A575	3	Stud, Exciter Cover Mounting
2A	866-1	3	Nut, Acorn - Exciter Cover Mounting
3	PANEL ONLY, EXCITER		
	234D100	1	Spec A Models Only
	234D105	1	Begin Spec B
4	305B212	1	Rectifier Assembly, Power (Complete) Includes four #305-211 plus wire and hdwe.
5	305-211	4	Rectifier Only, Power (Field) Included with #305B212 Assembly
6	150B733	1	Bracket Only, Overspeed Switch
7	232A1365	1	Stud and Contact Point Assy., Voltage Control Reactor Mounting
8	WASHER, FIBRE INSULATING - VOLTAGE CONTROL REACTOR STUD MOUNTING		
	508-18	2	1/4" x 3/4" x 1/16"
	508-29	1	1/4" x 3/8" x 1/32"
9	REACTOR, VOLTAGE CONTROL - Does Not Include Terminal Block		
	315A49	1	Spec A Models Only
	315A74	1	Begin Spec B
10	BLOCK, TERMINAL - VOLTAGE CONTROL REACTOR		
	332A622	1	Spec A Models Only
	332A687	1	Begin Spec B
11	305B202	1	Rectifier Assembly, Resistor and (Includes parts marked * plus wire and hardware).
12	234B60	2	*Bracket, Gate Reactor Mounting (NOTE: 1 only included with #305B202 assembly).
13	304A5	1	*Resistor, Control - Adjustable (150-Ohm, 25-Watt; 9/16" x 2"

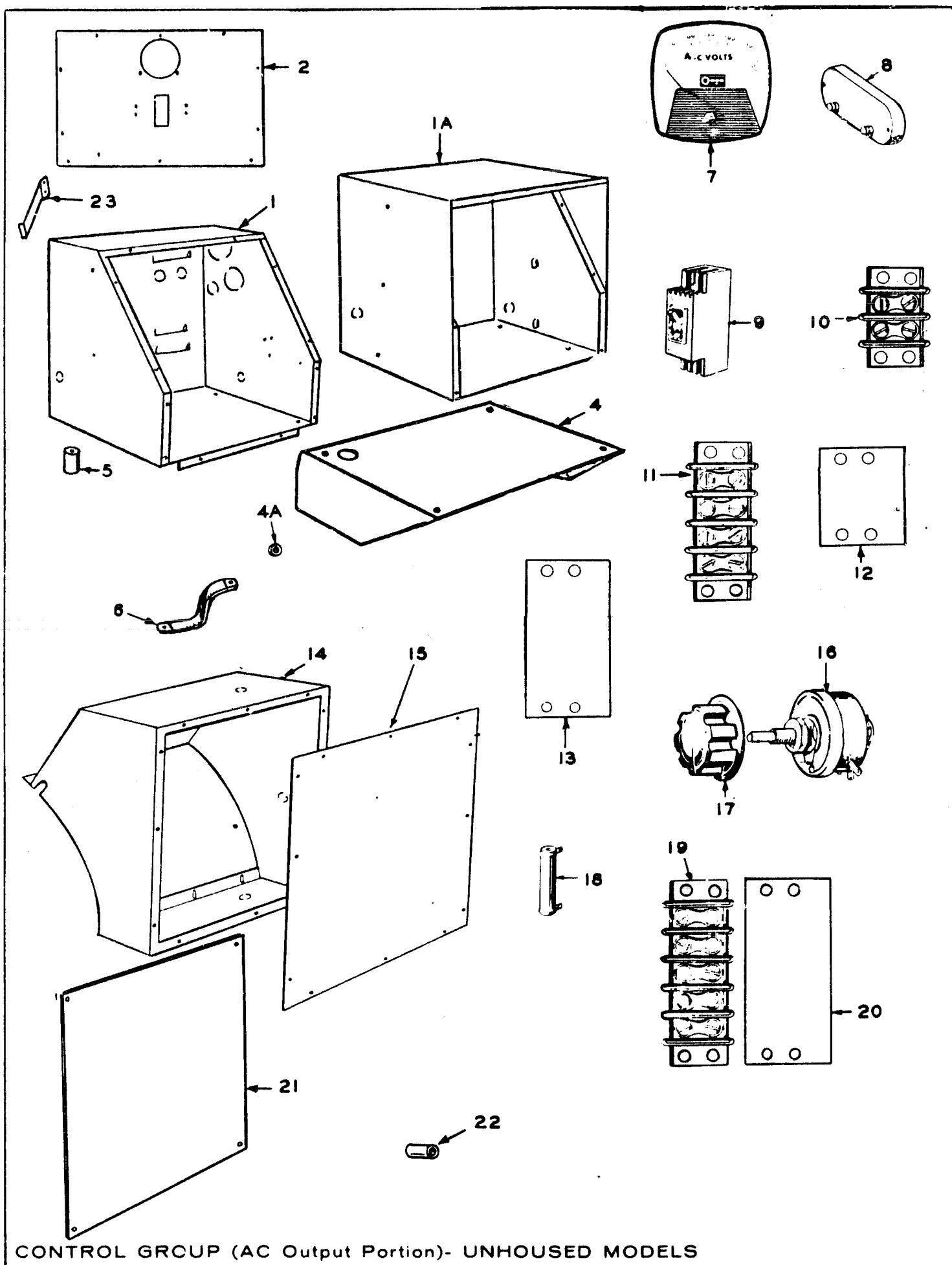
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
14	520A579	2	*Stud, Resistor and Rectifier Mounting (NOTE: 1 only included with #305B202 assy).
15	232A1473	2	*Spacer, Adjustable Resistor and Rectifier to Stud (3/8" O.D. x 3/16" I.D. x 7/32" Long)
16	304A14	2	*Washer, Centering - Adjustable Resistor Mounting
17	305-208	4	*Rectifier, Regulator (Control)
18	315A57	2	Reactor, Gate
19	234B62	2	Retainer, Gate Reactor
20	232A1361	2	Stud, Gate Reactor Mounting
21	304A21	1	Resistor, Fixed - Alternator Field (Damping) 3/4" x 4" (200-Ohm, 50-Watt)
22	304A15	2	Washer, Centering - Fixed Resistor Mounting
23	332A604	1	Block, Terminal - 5 Place
24	332A678	1	Strip, Block Marker - For 5 Place Block
	CONDENSER - 0.5 Mfd.		
25	312A17	1	Left Hand - Spec A Models Only
26	312A27	1	Right Hand - Spec A Models Only
	INSULATION, REACTOR MOUNTING		
27	232A1051	4	Gate Reactor to Mounting Bracket (1-1/4" x 1-5/8" x 1/8")
28	895-70	8	(6) Gate Reactor to Retainer, (2) Voltage Control Reactor Mounting - SPECIFY SIZE REQUIRED
29	232A1474	2	Spacer, Fixed Resistor to Stud (3/8" O.D. x 3/16" I.D. x 11/32" Long)
30	332A537	1	Block, Terminal - 4 Place
31	332A686	1	Strip, Terminal Block Marker - 4 Place Block

* - Included in Resistor and Rectifier Assembly #305B202.



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	PANEL ONLY, LOWER CONTROL		
	301C1608	1	Prior to Spec F
	301C1916	1	Spec F and G
	301C2124	1	Begin Spec H
2	308A166	1	Switch and Adapter Assembly, Start-Stop - Prior to Spec F
2A	308P154	1	Switch, Start-Stop - Spec F through G
4	302A61	1	Ammeter, Charge (30-0-30)
5	193B106	1	Gauge, Water Temperature
6	193B107	1	Gauge, Oil Pressure
7	307A388	1	Relay, Time Delay
8	HARNES ASSEMBLY, WIRE - ENGINE TO CONTROL		
	338C211	1	Housed Models - Prior to Spec K
	338C416	1	Housed Models - Begin Spec K
	338C209	1	Unhoused Models - Prior to Spec K
	338C415	1	Unhoused Models - Begin Spec K
9	RELAY, EMERGENCY STOP		
	307B299	1	Prior to Spec F
	307B614	1	Spec F and G
9A	307A655	1	Relay, Latching - Emergency Stop - Begin Spec H
10	308-91	1	Button, Emergency Stop Re-Set - Prior to Spec H
11	RELAY		
	307B4	1	Stop - Prior to Spec H
	307B4	1	Anti-Dieseling Solenoid Start - Prior to Spec H
12	RELAY, START IGNITION		
	307B81	1	Prior to Spec H
	307B597	1	Begin Spec H
13	307B52	1	Relay, Start-Disconnect
14	RELAY, STARTER PILOT		
	307B40	1	Prior to Spec H
	307B514	1	Begin Spec H
15	322-49	1	Receptacle, Panel Light - Housed Models Only - Prior to Spec H

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
15A	322P72	2	Receptacle, Panel Lights - Begin Spec H
16	BULB, PANEL LIGHT		
	322-26	1	Prior to Spec H - Housed Models Only
	322-4	3	Begin Spec H (2) Panel Lights (1) Pilot Light
17	332A607	1	Block, Terminal - Engine Connections - 12 Place
	BLOCK, TERMINAL - REMOTE CONNECTION		
18	332A537	1	4 Place - Prior to Spec H
18A	332A611	1	3 Place - Begin Spec H
19	332A608	1	Strip, Block Marker (Marked 4 through 15)
	STRIP, BLOCK MARKER - REMOTE CONNECTION		
20	332A566	1	Prior to Spec H - (Marked B+, 1, 2, 3)
20A	332A762	1	Begin Spec H - (Marked Remote, B+, Ground)
21	304-45	1	Resistor, Fixed (4-Ohm, 50-Watt) - 3/4 x 4"
22	RESISTOR, FIXED - 5/16 x 1-3/4"		
	304-32	1	15-Ohm, 10-Watt - Prior to Spec H
	304A192	1	3-Ohm, 10-Watt - Begin Spec H
23	301A1685	1	Bracket, Time Delay Relay Mounting
24	322P69	1	Receptacle Assembly, Pilot Light - Begin Spec H
25	320A104	1	Breaker, Circuit - Cranking Limiter - Begin Spec H
26	308-2	1	Switch, Panel Lights - Begin Spec H
27	308P138	1	Switch, Run-Stop-Remote - Begin Spec H
28	307B597	1	Relay, Ignition - Begin Spec H
	306A211	1	Bracket, Starter Pilot Relay - Begin Spec K

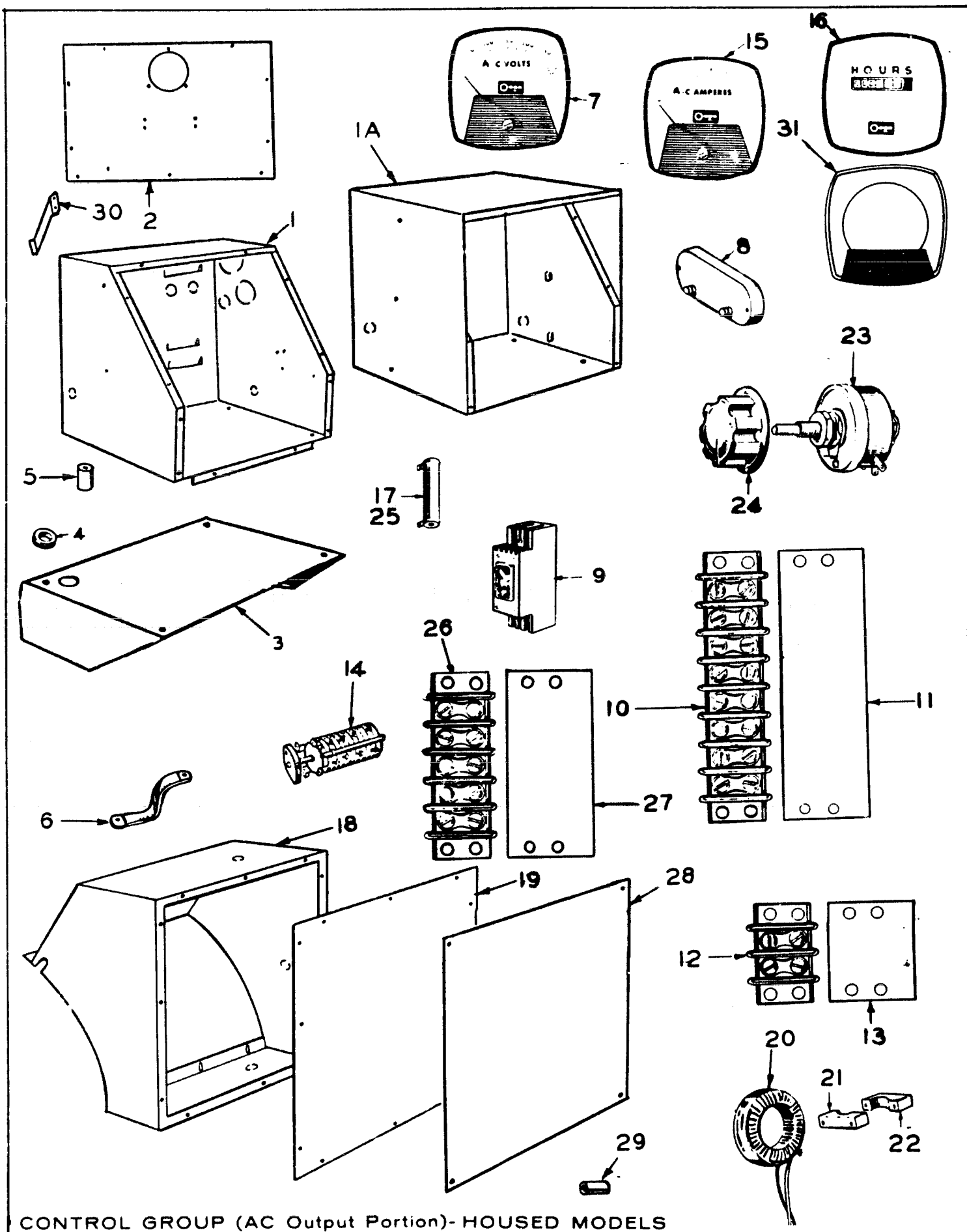


CONTROL GROUP (AC Output Portion)- UNHOUSED MODELS

NOTE: For Unhoused Models with Optional Meter Panel, use Control Group as listed for Housed Models.

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	BOX ONLY, CONTROL		
1	301D1537	1	Prior to Spec H
1A	301D2115	1	Begin Spec H
2	PANEL ONLY, CONTROL		
	301C1666	1	All Models EXCEPT 480 Volt - Spec A Only
	301C1657	1	480 Volt Model - Spec A Only
	301C1809	1	All Models Begin Spec B
4	BRACKET, CONTROL BOX MOUNTING		
	301C2539	1	3-Phase Models (Replaces 2 Piece Bracket)
	301C1830	1	1-Phase Models (Models with Unity Power Factor Use 301C2539)
4A	508P63	1	Grommet, Mounting Bracket
5	402-78	4	Rubber, Mounting - Control Box to Mounting Bracket
6	337A44	1	Strap, Ground
7	VOLTMETER, AC		
	302P421	1	120/240 Volt - 1 Phase Models, and 120/208 Volt and 120/240 Volt - 3 Phase Models - (0-300)
	302P422	1	480 Volt, and 277/480 Volt - 3 Phase Models - (0-600)
	302P423	1	600 Volt - 3 Phase - (0-750)
8	302-157	1	Multiplier, Meter (Resistor) - 480 Volt Models Only - Prior to Spec H - (Used with 0-500 Voltmeter)
9	320B170	1	Breaker, Circuit
	BLOCK, TERMINAL		
10	332A333	1	All Models EXCEPT 480 Volt - Spec A Only (2 Place Block)
11	332A391	1	480 Volt Models - Spec A Only - (4 Place Block)
	STRIP, TERMINAL BLOCK MARKER		
12	332A600	1	All Models EXCEPT 480 Volt - Spec A Only - (2 Place)
13	332A427	1	480 Volt Models - Spec A Only - (4 Place)

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
14	BOX, OUTPUT TERMINAL (Mts. on Side of Generator)		
	301E1675	1	Single Phase Models - (NOTE: Models with Unity Power Factor use 301B1209)
	301B1209	1	All 3 Phase Models
15	COVER, OUTPUT TERMINAL BOX		
	301B1676	1	Single Phase Models - (NOTE: Models with Unity Power Factor use 301B1190)
	301B1190	1	All 3 Phase Models
16	RHEOSTAT, VOLTAGE REGULATOR - 75-Ohm Model		
	H - Begin Spec B		
	303-111	1	Single Phase Models - (NOTE: Models with Unity Power Factor use 303-97)
	303-97	1	All 3 Phase Models
17	303-32	1	Knob, Rheostat - Begin Spec B
18	RESISTOR, RHEOSTAT - BEGIN SPEC B		
	304A484	1	Single Phase Models - (NOTE: Models with Unity Power Factor use 304A479) - 825-Ohm - 75-Watt
	304A479	1	All 3 Phase Models - 425-Ohm - 50-Watt
19	332A604	1	Block, Terminal (5 Place) - Begin Spec B
20	STRIP, TERMINAL BLOCK MARKER		
	332A689	1	120/208 Volt, 120/240 Volt, 600 Volt - 3 Phase Models
	332A690	1	Single Phase Models, and 480 Volt, and 277/480 Volt - 3 Phase Models - (NOTE: Single Phase Models with Unity Power Factor use 332A689)
21	BACK PLATE, CONTROL BOX		
	301B1714	1	Spec B through G
	301B2222	1	Begin Spec H
22	301A458	4	Spacer, Control Box Back Plate - Begin Spec B
23	301A1914	1	Bracket, Panel Stop



CONTROL GROUP (AC Output Portion)-HOUSED MODELS

NOTE: Use this group also for Unhoused Models with Optional Meter Panel. (Standard on Housed Models).

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	BOX ONLY, CONTROL		
1	301D1537	1	Prior to Spec H
1A	301D2115	1	Begin Spec H
2	PANEL ONLY, CONTROL		
			Spec A Models Only
	301C1641	1	50,000-Watt - Single Phase
	301C1642	1	All 50,000-Watt - 3 Phase
	301C1658	1	60,000-Watt - 3 Phase
			Spec B through G
	301C1810	1	50,000-Watt - Single Phase
	301C1814	1	120/208-Volt, and 120/240-Volt - 3 Phase
	301C1824	1	480-Volt, 277/480-Volt, and 600-Volt - 3 Phase
			Begin Spec H
	301C1810	1	50,000-Watt - Single Phase
	301C1814	1	120/208-Volt, 120/240-Volt, 277/480-Volt, 480-Volt, and 600-Volt - 3 Phase
3	301C2539	1	*Bracket, Control Box Mounting (Repl. 2 Piece Bracket)
4	508P63	1	*Grommet, Mtg. Bracket
5	402-78	4	*Rubber, Mounting - Control Box to Mtg. Bracket
6	337A44	1	Strap, Ground
7	VOLTMETER, AC		
	302P421	1	120/240-Volt - Single Phase, and 120/208-Volt, and 120/240-Volt - 3 Phase Models - (0-300)
	302P422	1	277/480-Volt, and 480-Volt - 3 Phase Models - (0-600)
	302P423	1	600-Volt - 3 Phase Models - (0-750)
8	302-157	1	Multiplier, Meter (Resistor) 480-Volt Models - Prior to Spec H - (Used only with 0-500 Scale Voltmeter)
9	320B170	1	Breaker, Circuit
10	332A503	1	Block, Terminal (8 Place)
11	332A601	1	Strip, Terminal Block Marker (8 Place)
12	332A333	1	Block, Terminal - 2 Place - 480-Volt Plants - Spec A Only
13	332A600	1	Strip, Block Marker - 2 Place - 480-Volt Plants - Spec A Only
14	308-22	1	Switch, Voltage & Current Selector - 3 Phase Models Only
15	AMMETER, AC (Check Ammeter Scale - Select According to Rating)		
	302P406	1	Ammeter Scale Reads 0-75
	302P408	1	Ammeter Scale Reads 0-100
	302P409	1	Ammeter Scale Reads 0-140
	302P411	1	Ammeter Scale Reads 0-200
	302P412	1	Ammeter Scale Reads 0-250
	302P413	1	Ammeter Scale Reads 0-300
16	METER, RUNNING TIME - 60 CYCLE PLANTS		
	302-212	1	Prior to Spec H - (NOTE: When used to replace 302-387 on plants requiring a resistor also order #304A99 Resistor for 120/240-Volt or #304A125 for 480-Volt or #304A134 for 600-Volt Models)
			Begin Spec H
	302P465	1	120/240-Volt - Single Phase, and 120/208-Volt, 120/240-Volt, and 600-Volt - 3 Phase Models

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	302P467	1	277/480-Volt, and 480-Volt - 3 Phase Models
17	RESISTOR, RUNNING TIME METER		
	304A444	1	Used on some early 120/240-Volt Models - Prior to Spec H - (Used with 302-387 Meter)
	304A445	1	Used on some early 480-Volt Models - Prior to Spec H - (Used with 302-387 Meter)
	304A125	1	480-Volt, and 277/480-Volt - 3 Phase Models - Prior to Spec H - (Used with 302-212 Meter)
	304A134	1	600-Volt - 3 Phase Models - Prior to Spec H - (Used with 302-212 Meter)
	304A536	1	600-Volt - 3 Phase Models - Begin Spec H - (Used with 302P465 Meter)
18	301D1209	1	Box, Output-Terminal (Mts. on Side of Generator)
19	301B1190	1	Cover, Output Terminal Box
20	TRANSFORMER, CURRENT (Mts. Inside Terminal Box) Check Transformer Nameplate - Select According to Rating)		
	302B76	3	Transformer Nameplate Reads "Ratio 75/5" - (Use with 0-75 AC Ammeter)
	302B78	3	Transformer Nameplate Reads "Ratio 100/5" - (Use with 0-100 AC Ammeter)
	302B125	3	Transformer Nameplate Reads "Ratio 140/5" - (Use with 0-140 AC Ammeter)
	302B106	3	Transformer Nameplate Reads "Ratio 200/5" - (Use with 0-200 AC Ammeter)
	302B209	3	Transformer Nameplate Reads "Ratio 250/5" - (Use with 0-250 AC Ammeter)
	302B107	3	Transformer Nameplate Reads "Ratio 300/5" - (Use with 0-300 AC Ammeter) - NOTE: Quantity is 2 for Single Phase Models.
	CLAMP, CURRENT TRANSFORMER MOUNTING		
21	302A235	3	Inside Half (NOTE: Quantity is 2 for Single Phase Models)
22	302A236	3	Outside Half (NOTE: Quantity is 2 for Single Phase Models)
23	303-97	1	Rheostat, Voltage Regulator - 75-Ohm, Model H - Begin Spec B
24	303-32	1	Knob, Rheostat - Begin Spec B
25	304A479	1	Resistor, Rheostat - Begin Spec B
26	332A604	1	Block, Terminal - 5 Place - Begin Spec B
27	STRIP, BLOCK MARKER - 5 Place		
	332A689	1	120/240-Volt - Single Phase, and 120/208-Volt, and 120/240-Volt - 3 Phase Models - Begin Spec B
	332A690	1	480-Volt, 277/480-Volt, and 600-Volt - 3 Phase Models - Begin Spec B
28	*BACK PLATE, CONTROL BOX		
	301C1714	1	Prior to Spec H
	301B2222	1	Begin Spec H

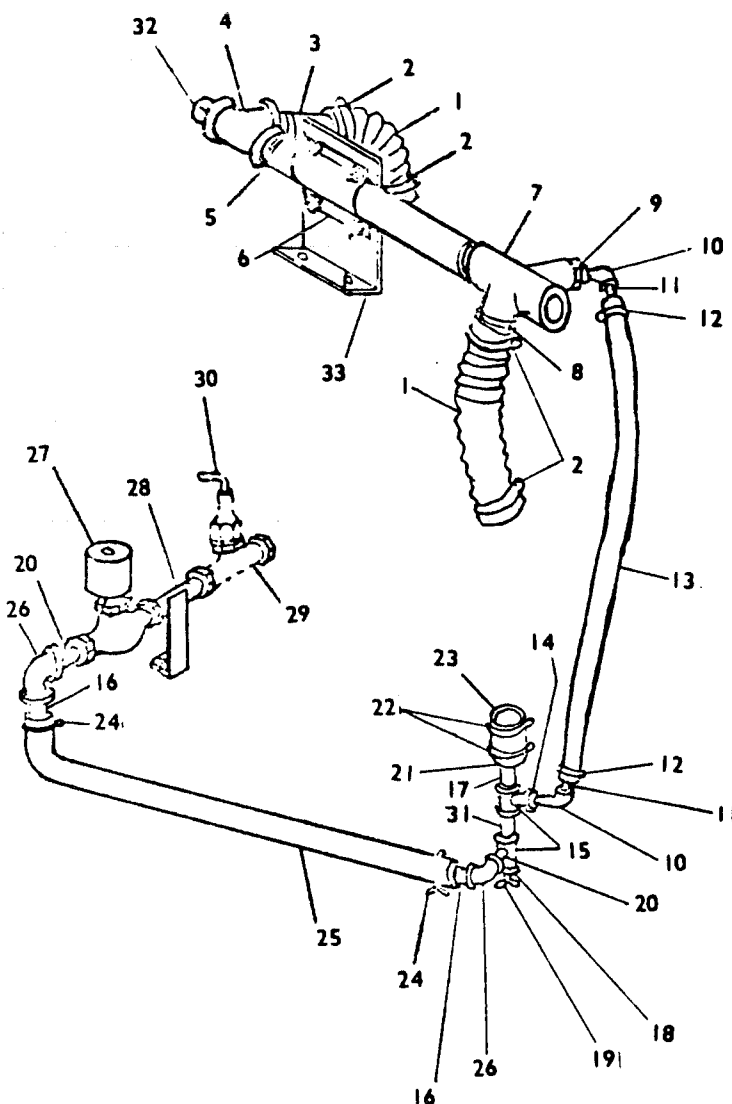
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
29	301C458	4	*Spacer, Control Box Back Plate
30	301A1914	1	Bracket, Panel Stop
31	302B448	1	Plate, Meter Face

* - These parts used only on Unhoused Models WITH OPTIONAL Meter Panel.

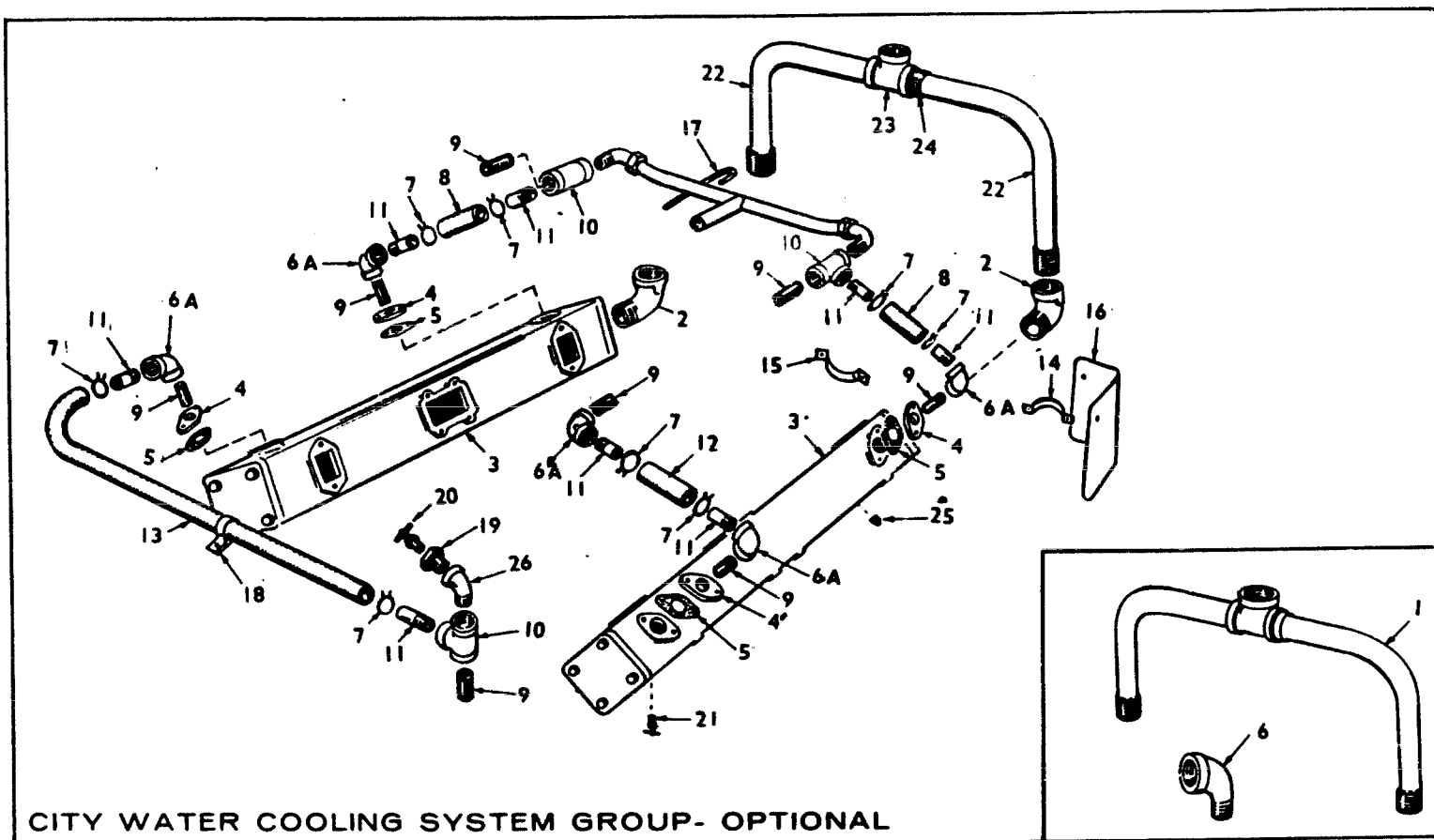
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
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CITY WATER COOLING SYSTEM GROUP- OPTIONAL

NOTE: See separate groups for plants with water cooled manifold, and/or heat exchanger.



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	503P364	2	Hose, Upper
2	503P365	4	Clamp, Hose
3	505-474	1	Nipple, Half (1-1/2 x 5'') - Unhoused Plants
3	505-272	1	Nipple, Half (1-1/2 x 4'') - Housed Plants
4	505-317	1	Tee (1-1/2'')
5	505-424	1	Nipple, Pipe (1-1/2 x 16-1/2'')
6	130B488	1	Support, Pipe
7	505-398	1	Tee, Side Outlet (1-1/2'')
8	505-272	1	Nipple, Half (1-1/2 x 4'') - Unhoused Plants
8	505-385	1	Nipple, Half (1-1/2 x 2'') - Housed Plants
9	505-426	1	Bushing, Reducer (1-1/2 x 1/4'')
10	505-11	1	Elbow, Street (1/4'') - 2 used on Housed plants
11	505-10	2	Nipple, Half (1/4 x 1'')
12	503-32	2	Clamp, Hose
13		1	Hose (Order 20' of Bulk Hose #503PI 10)
14	505-20	1	Bushing, Reducer (3/4 x 1/4'')
15	505-166	2	Tee, Pipe (3/4'')
16	505-324	1	Nipple, Half (3/4 x 2'')
17	505-84	1	Nipple, Pipe (3/4 x 2-1/2'') - 2 used on Housed plants
18	505-131	1	Bushing, Reducer (3/4 x 3/8'')
19	504-28	1	Valve, Drain
20	505-102	2	Nipple, Close (3/4'')
21	130A452	1	Inlet, Water
22	503P354	2	Clamp, Hose
23		1	Hose (Order 3' of Bulk Hose #503-357)
24	503-189	2	Clamp, Hose
25		1	Hose (Order 34' of Bulk Hose #503-249)
26	505-132	2	Elbow, Pipe (3/4'' x 90°)
27	307P835	1	Solenoid Valve
28	110A810	1	Nipple & Bracket
29	504-46	1	Valve, Lockshield
30	504-20	1	Key, Lockshield Valve
31	505-165	1	Nipple, Pipe (3/4 x 5-1/2'')
32	505-402	1	Plug, Pipe (1-1/2'')
33	130A528	1	Support, Pipe
	130C454	1	Guard, Belt, Unhoused plants only
	130B455	1	Bracket, Belt Guard - Unhoused plants only
	403C384	1	Extension, Radiator Hood - Unhoused plants only



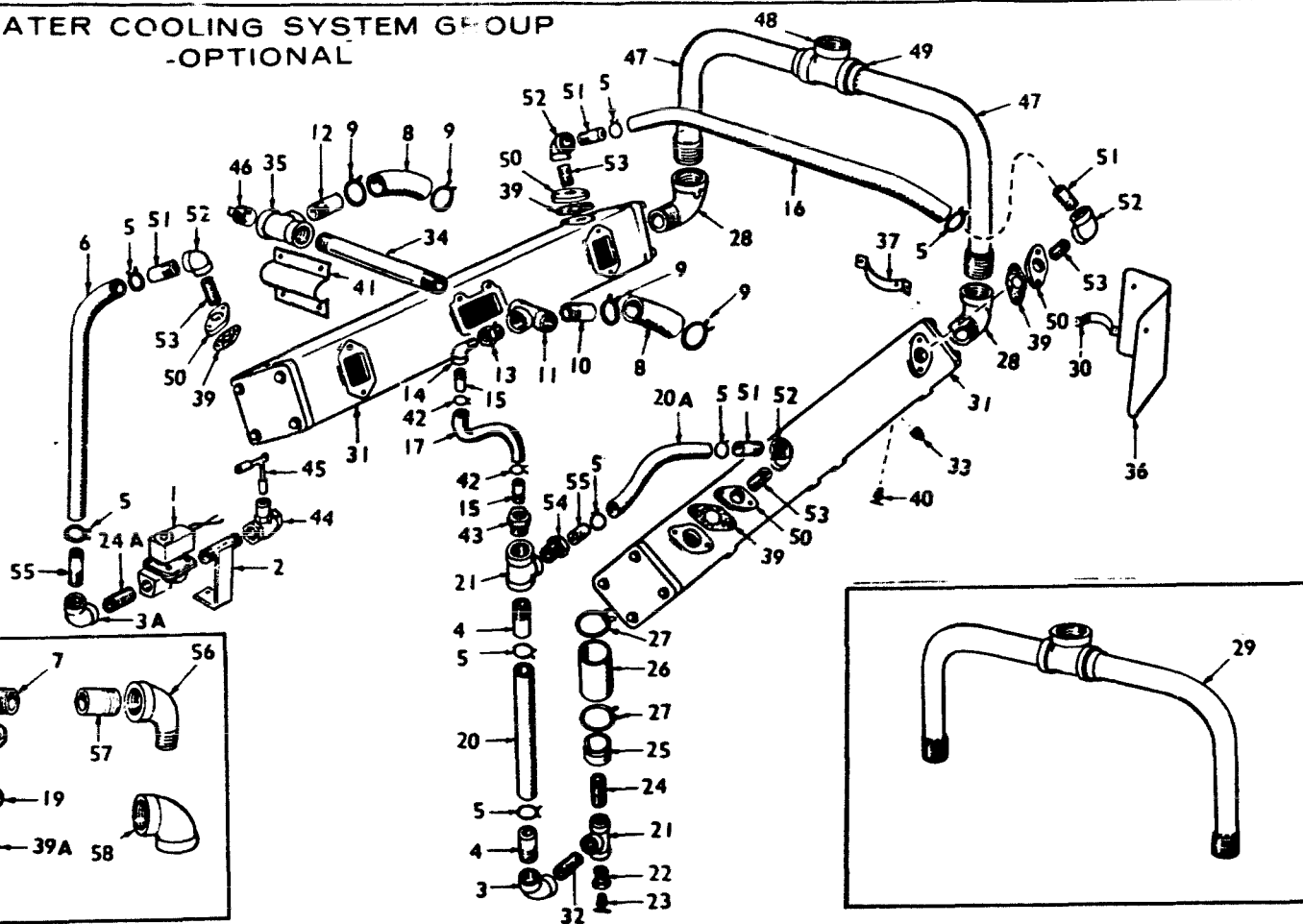
CITY WATER COOLING SYSTEM GROUP- OPTIONAL

NOTE: See separate groups for plants without heat exchanger and/or city water cooled manifolds.

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	155C656	1	Header Assy., Exhaust - Prior to Serial #39C090774
2	505-216	2	Elbow, Street (2-1/2")
3	MANIFOLD, WATER COOLED		
	154P583	2	Prior to Serial #39C090774
	154P1245	2	Begin Serial #39C090774
4	154A611	4	Flange
5	145A178	4	Gasket, Flange
6	505-50	6	Elbow, Street (1/2" x 90°) - Manifold Water Inlet - Prior to Serial #39C090774
6A	505-40	5	Elbow, Pipe (1/2" x 90°) - Manifold Water Inlet - Begin Serial #39C090774
7	503-189	8	Clamp, Hose
8	HOSE		
		2	Order 5-1/2" of Bulk Hose #503P191 - Prior to Serial #39C090774
		2	Order 8" of Bulk Hose #503P191 - Begin Serial #39C090774
9	505-100	8	Nipple, Pipe (1/2 x 1-1/8") - NOTE: Prior to Serial #39C090774 Quantity of 3 each.
10	505-108	3	Tee, Pipe (1/2")
11	505-185	8	Nipple, Half (1/2 x 1-1/2")

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
12	HOSE		
		1	Order 10" of Bulk Hose #503P191 - Prior to Serial #39C090774
		1	Order 13-1/2" of Bulk Hose #503P191 - Begin Serial #39C090774
13	HOSE		
		1	Order 25-1/2" of Bulk Hose #503P191 - Prior to Serial #39C090774
		1	Order 30" of Bulk Hose #503P191 - Begin Serial #39C090774
14	155A661	2	Band, Exhaust Shield Mtg.
15	155A660	2	Bracket, Exhaust Shield Mtg.
16	155C659	2	Shield, Exhaust Header
17	130A745	1	Line, Water
18	148-274	1	Clamp, Hose Support
19	505-19	1	Bushing, Reducer (1/2 x 3/8")
20	504-28	1	Valve, Drain
21	504-5	2	Valve, Drain
22	TUBE, EXHAUST - Begin Serial #39C090774		
	155B1048	1	Left Side
	155B1047	1	Right Side
23	505-373	1	Tee, Reducing (2-1/2 x 2-1/2 x 3) - Begin Spec #39C090774
24	155A615	1	Nipple, Half - Begin Serial #39C090774
25	505-57	2	Plug, Pipe (1/8)
26	505-248	1	Elbow, Street (1/2 x 45°)
	154P592	2	Gasket Set, Manifold

CITY WATER COOLING SYSTEM GROUP -OPTIONAL



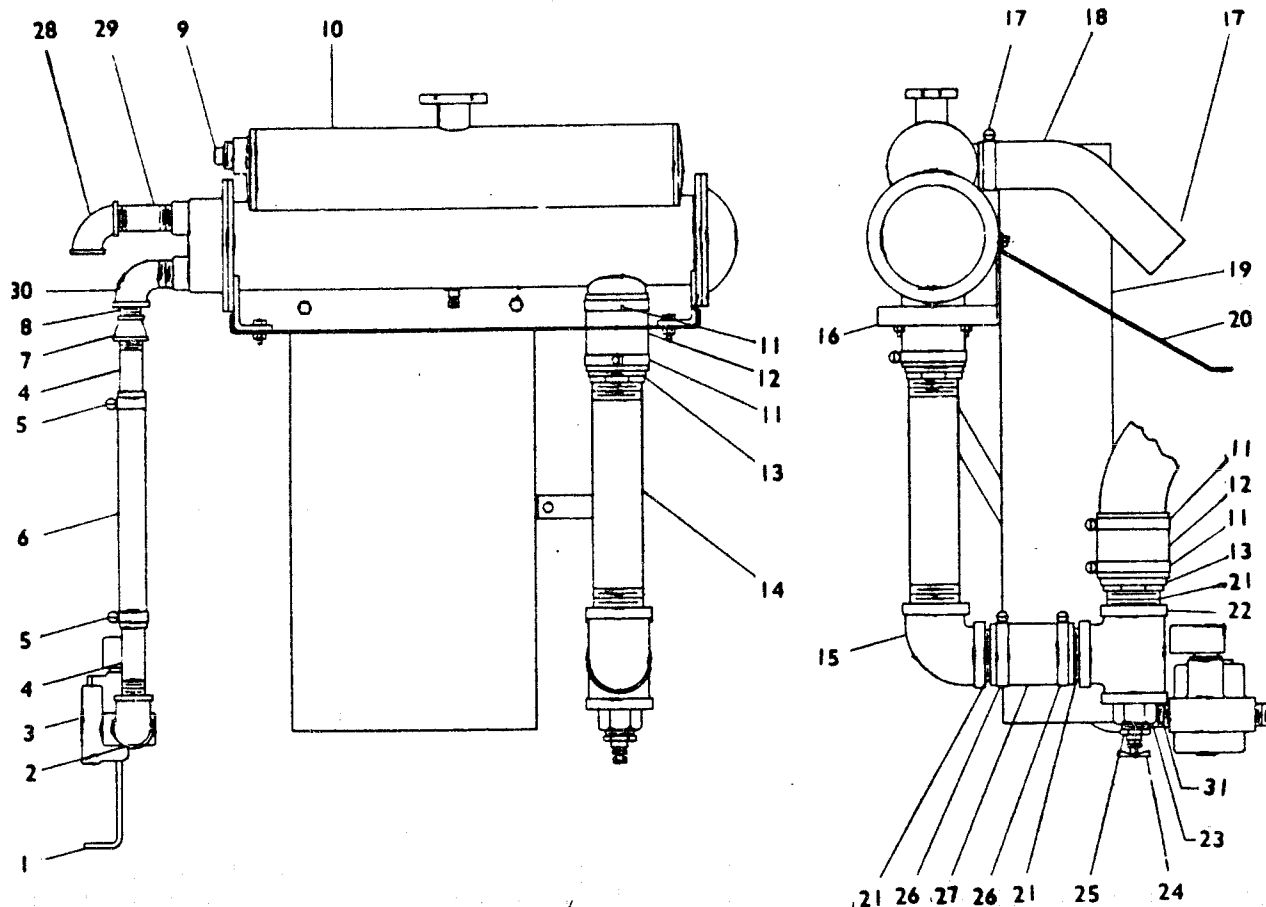
NOTE: See separate groups for plants with heat exchanger and city water cooled without water cooled manifolds.

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	VALVE, SOLENOID 307P835	1	Prior to Serial #39C090774
	307P833	1	Begin Serial #39C090774
2	NIPPLE & BRACKET 110A810	1	Prior to Serial #39C090774
	110A526	1	Begin Serial #39C090774
3	505-132	1	Elbow, Pipe (3/4" x 90°)
3A	ELBOW, PIPE 505-132	1	3/4 x 90° - Prior to Serial #39C090774
	505-40	1	1/2 x 90° - Begin Serial #39C090774
4	505-324	2	Nipple, Half (3/4" x 2")
5	503-189	8	Clamp, Hose
6	HOSE	1	Order 18" of Bulk Hose #503-249 - Prior to Serial #39C090774
		1	Order 23" of Bulk Hose #503-386 - Begin Serial #39C090774
7	CONNECTOR, WATER INLET - MANIFOLD - Prior To Serial #39C090774		
	154B595	2	Rear
	154B602	1	Right Front
	154B594	1	Left Front
8	503P364	2	Hose, Upper
9	503P365	4	Clamp, Hose
10	505-272	1	Nipple, Half (1-1/2 x 4")
11	505-398	1	Tee, Side Outlet (1-1/2")

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
12	505-474	1	Nipple, Half (1-1/2 x 5")
13	505-426	1	Bushing, Reducer (1-1/2 x 1/4")
14	505-11	1	Elbow, Street (1/4")
15	505-10	2	Nipple, Half (1/4")
16	HOSE	1	Order 34" of Bulk Hose #503-249 - Prior to Serial #39C090774
		1	Order 38" of Bulk Hose #503-386 - Begin Serial #39C090774
17		1	Hose (Order 9" of Bulk Hose #503P110)
19	154A596	1	Cover, Flange - Prior to Serial #39C090774
20		1	Hose (Order 7" of Bulk Hose #503-249)
20A	HOSE	1	Order 7" of Bulk Hose #503-249 - Prior to Serial #39C090774
		1	Order 11" of Bulk Hose #503-386 - Begin Serial #39C090774
21	505-166	2	Tee, Pipe (3/4")
22	505-131	1	Bushing, Reducer (3/4 x 3/8")
23	504-28	1	Valve, Drain
24	505-102	1	Nipple, Close (3/4")

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
24A	NIPPLE, PIPE		
	505-102	1	3/4" x Close - Prior to Serial #39C090774
	505-100	1	1/2" x Close - Begin Serial #39C090774
25	130A452	1	Inlet, Water
26		1	Hose (Order 3" of Bulk Hose #503-357)
27	503P354	2	Clamp, Hose
28	505-216	2	Elbow, Street (2-1/2")
29	155C656	1	Header Assy., Exhaust - Prior to Serial #39C090774
30	155A661	2	Band, Exh. Shield Mtg.
31	MANIFOLD, WATER COOLED		
	154P583	2	Prior to Serial #39C090774
	154P1245	2	Begin Serial #39C090774
32	505-84	1	Nipple, Pipe (3/4 x 2-1/2")
33	505-57	2	Plug, Pipe (1/8")
34	505-424	1	Nipple, Pipe (1-1/2" x 16-1/2")
35	505-317	1	Tee (1-1/2")
36	155C659	2	Shield, Exh. Header
37	155B660	2	Bracket, Exh. Shield Mtg.
39	145A178	4	Gasket, Flange
39A	145A178	1	Gasket, Flange - Prior to Serial #39C090774
40	504-5	2	Valve, Drain
41	130B488	1	Support, Pipe
42	503-32	2	Clamp, Hose
43	505-20	1	Bushing, Reducer (3/4 x 1/4")
44	VALVE, LOCKSHIELD		
	504-46	1	Prior to Serial #39C090774
	504-19	1	Begin Serial #39C090774
45	504-20	1	Key, Lockshield Valve
46	505-402	1	Plug, Pipe (1-1/2")
47	TUBE, EXHAUST		Begin Serial #39C090774
	155B1048	1	Left Side
	155B1047	1	Right Side
48	505-373	1	Tee, Reducer (2-1/2 x 2-1/2 x 3) - Begin Serial #39C090774
49	155A615	1	Nipple, Half - Begin Serial #39C090774

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
50	154A611	4	Flange, Water Inlet - Begin Serial #39C090774
51	505-185	4	Nipple, Half (1/2 x 1-1/2") - Begin Serial #39C090774
52	504-40	4	Elbow, Pipe (1/2 x 90°) - Begin Serial #39C090774
53	505-100	4	Nipple, Pipe (1/2 x Close) - Begin Serial #39C090774
54	505-21	1	Bushing, Reducer (3/4 x 1/2) - Begin Serial #39C090774
55	NIPPLE, HALF		
	505-324	2	3/4 x 2" - Prior to Serial #39C090774
	505-185	2	1/2 x 1-1/2" - Begin Serial #39C090774
56	505-287	1	Elbow, Street (3/4" x 45°) - L.H. Front Manifold Water Inlet - Housed Plants Only - Prior to Serial #39C090774
57	505-324	1	Nipple, Half (3/4 x 2") - L.H. Front Manifold Water Inlet - Housed Plants Only - Prior to Serial #39C090774
58	505-132	1	Elbow, Pipe (3/4 x 90°) - L.H. Front Manifold Water Inlet - Housed Plants Only - Prior to Serial #39C090774
	402A137	2	Spacer, Coil Stud - Prior to Serial #39C090774
	520A458	2	Stud, Coil Mounting - Prior to Serial #39C090774
	520A44	16	Stud, Manifold Mounting
	154P592	2	Gasket Set, Manifold
	130C454	1	Guard, Belt
	130B455	1	Bracket, Belt Guard
	403C384	1	Extension, Radiator Hood - Unhoused Plants Only - Prior to Serial #39C090774
	305D1186	1	Top Panel, Hsg. - Housed Plants Only
	405D1185	1	Door, Hsg. - Housed Plants Only



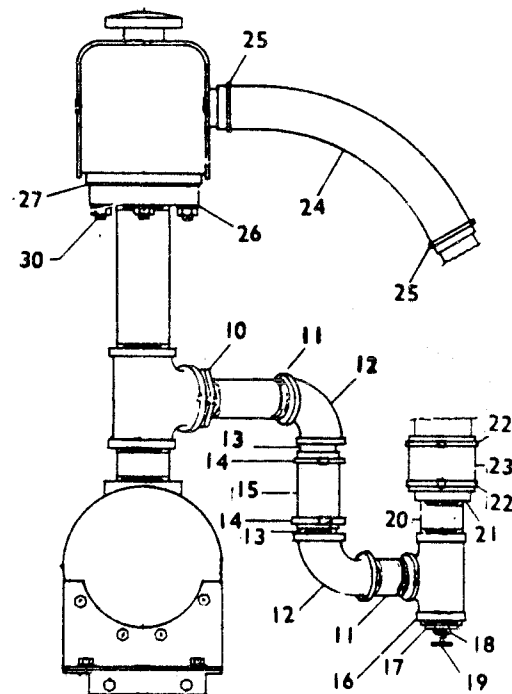
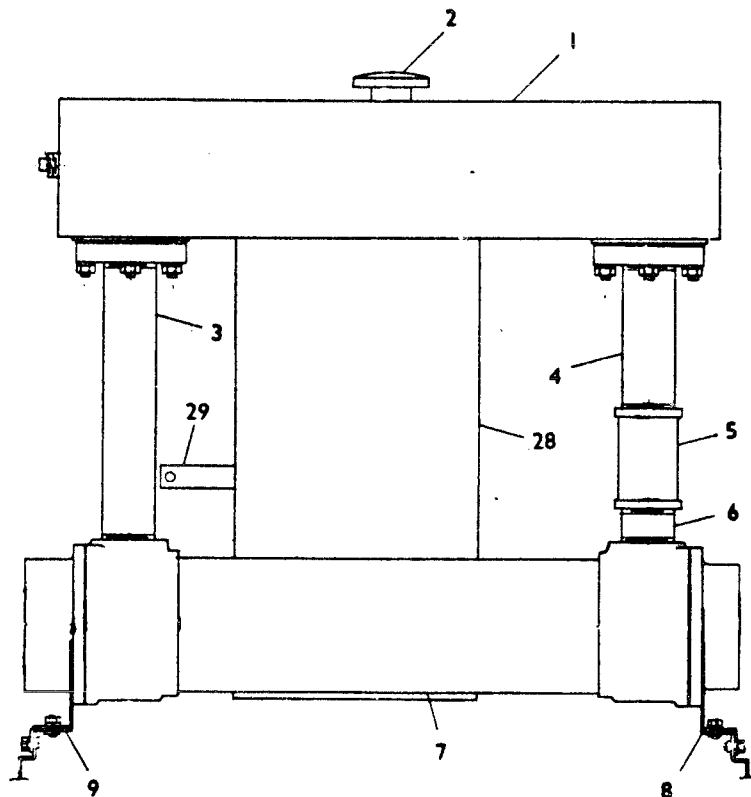
HEAT EXCHANGER GROUP -BEGIN SPEC.L- OPTIONAL

NOTE: See separate groups for city water cooling systems.

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	130A763	1	Bracket & Nipple
2	505-3	1	Elbow (1-1/4")
3	307-849	1	Valve, Solenoid
4	505-437	2	Nipple, Half (1-1/4 x 4")
5	503-4	2	Clamp, Hose
6		1	Hose (Order 12" piece of Bulk Hose #503-359)
7	505-138	1	Coupling, Reducer (1-1/4 x 1")
8	505-4	1	Nipple, Close (1 x 1-1/2")
9	505-140	1	Plug, Pipe (1")
10	130P753	1	Exchanger, Heat
11	503P354	4	Clamp, Hose
12		2	Hose (Order 4" piece of Bulk Hose #503-357)
13	130A478	2	Inlet, Water
14	505-95	1	Nipple, Pipe (1-1/2 x 12")
15	505-43	1	Elbow, Pipe (1-1/2")
16	130C752	1	Bracket, Heat Exchanger
17	503-311	2	Clamp, Hose

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
18	503B332	2	Hose, Upper
19	130C454	1	Guard, Belt
20	130B751	1	Brace, Belt Guard
21	505-385	3	Nipple, Half (1-1/2 x 2")
22	505-317	1	Tee, Pipe (1-1/2")
23	505-399	1	Bushing, Reducer (1-1/2" x 1/2")
24	504-28	1	Valve, Drain
25	505-19	1	Bushing, Reducer (1/2 x 3/8")
26	503-365	2	Clamp, Hose
27		1	Hose (Order 4" of Bulk Hose #503-411)
28	505-41	1	Elbow, Pipe (1")
29	505-86	1	Nipple, Pipe (1 x 2-1/2")
30	505-3	1	Elbow, Street (1-1/4")
31	505-219	1	Nipple, Pipe (1-1/4 x 4-1/2")
	403C384	1	Cover, Chassis Front
	504-51	1	Valve, Lockshield
	504-52	1	Key, Lockshield Valve

HEAT EXCHANGER GROUP- PRIOR TO SPEC L- OPTIONAL



NOTE: See separate groups for city water cooling systems.

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	130C475	1	Tank, Expansion
2	139P431	1	Cap, Expansion Tank Fill
3	505-142	1	Nipple, Pipe (2 x 14")
4	505-421	1	Nipple, Pipe (2 x 8")
5	505-374	1	Tee, Pipe (2")
6	505-168	1	Nipple, Pipe (2 x 2-1/2")
7	130P416	1	Exchanger, Heat
8	BRACKET, MTG.-HEAT EXCHANGER, R.H.		
	130B476	1	Unhoused Plants
	130B530	1	Housed Plants
9	BRACKET, MTG.-HEAT EXCHANGER, L.H.		
	130B477	1	Unhoused Plants
	130B531	1	Housed Plants
10	505-187	1	Bushing, Reducer (2 x 1-1/2")
11	NIPPLE, PIPE		
	505-109	1	Unhoused Plants (1-1/2 x 2-1/2")
	505-109	2	Housed Plants (1-1/2 x 2-1/2")
	505-85	1	Unhoused Plants (1-1/2 x 2")
12	505-43	2	Elbow, Pipe (1-1/2" by 90°)
13	505-385	2	Nipple, Half --Pipe (1-1/2 x 2")
14	503-287	2	Clamp, Hose
15		1	Hose (Order 3-1/2" of Bulk Hose #503-356)

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
16	505-317	1	Tee, Pipe (1-1/2")
17	505-399	1	Bushing, Reducer (1-1/2 x 1/2")
18	505-19	1	Bushing, Reducer (1/2 x 3/8")
19	504-6	1	Valve, Shut-off - Drain
20	505-220	1	Nipple, Pipe (1-1/2 x 1-3/4")
21	130A478	1	Inlet, Water
22	503P354	2	Clamp, Hose
23		1	Hose (Order 3" of Bulk Hose #503-357)
24	503-332	2	Hose, Expansion Tank
25	503-287	4	Clamp, Hose
26	130P493	1	Flange, Union
27	130A486	2	Gasket, Flange to Exp. Tank
28	130C454	1	Guard, Belt - Unhoused Plants Only
29	130B455	1	Bracket, Belt Guard - Unhoused Plants Only
30	520A602	8	Stud, Heat Exchanger Flange Mtg.
	405DI285	1	Panel, Front End Hsg. - Housed Plants Only

SPECIAL PARTS SECTION

FOR KB SERIES PENNSYLVANIA APPROVED GENERATING PLANTS

Parts not listed in this section, refer to the standard, parts groups. Parts in this list are not illustrated.

GASOLINE FUEL SYSTEM & ANTI-DIESELING GROUP

<u>PART NO.</u>	<u>QTY. USED</u>	<u>PART DESCRIPTION</u>
307B284	1	Solenoid & Lead Assy., Anti-Dieseling - Prior to Spec L
159C685	1	Line, Fuel Pump to Carburetor
415B161	1	Tank, Fuel (55-gal.) - Begin Spec J
415-43	1	Cap, Fuel Tank Fill - Begin Spec J
415-44	1	Cap, Fuel Tank Vent - Begin Spec J
415K7	2	Line, Fuel (25-ft.) - Begin Spec J
415A140	1	Tube, Fuel Tank Suction - Begin Spec J
505-7	2	Bushing, 1/4 x 1/8" (Fuel Tank) - Begin Spec J
505-18	3	Bushing, 1/2 x 1/4" (Fuel Tank) - Begin Spec J
505-56	2	Plug, 1/2" (Fuel Tank) - Begin Spec J
505-211	1	Pipe, Fuel Tank Fill (2 x 30") - Begin Spec J
505-212	1	Pipe, Fuel Tank Vent (1-1/4 x 36") - Begin Spec J
307P567	1	Valve, Solenoid - Reservoir Tank (36-Volt) - Spec J through K

IGNITION GROUP

<u>PART NO.</u>	<u>QTY. USED</u>	<u>PART DESCRIPTION</u>
COIL, IGNITION		
166P184	1	Prior to Spec J (24-Volt)
166B278	1	Spec J through K (12-Volt)
416A37	2	Cable, Battery - Prior to Spec L
416A133	5	Cable, Battery - Jumper - Prior to Spec L
416P325	1	Hydrometer

STARTING MOTOR & BATTERY CHARGE GENERATOR GROUP - Prior to Spec L

<u>PART NO.</u>	<u>QTY. USED</u>	<u>PART DESCRIPTION</u>
191B208	1	Cover, Starter Mounting Hole

**GENERATOR GROUP (ALTERNATOR PORTION)
Prior to Spec L**

<u>PART NO.</u>	<u>QTY. USED</u>	<u>PART DESCRIPTION</u>
212C194	1	Rig Assy., Brush
214A46	1	Brush
211E96	1	Bell, End - Alternator to Exciter
232B1253	3	Cover, End Bell Opening (Screened)

**GENERATOR GROUP (ROTATING EXCITER PORTION)
Prior to Spec L**

<u>PART NO.</u>	<u>QTY. USED</u>	<u>PART DESCRIPTION</u>
*	1	Armature Assy.
*	1	Frame Only
212C1143	1	Holder, Brush Rig
*	4	Pole Shoe
*	1	Coil Assy. (Set of 4 Coils)
515-130	1	Key, Exciter to Alternator Armature
212C211	1	Rig Assy., Brush
212B1011	4	Spring, Brush
214A18	4	Brush
211C92	1	Cover, Exciter
336A629	2	Jumper, Brush Rig
232A1205	1	Washer, Centering - Armature Through Screw
232A1421	As Req.	Washer, Shim - Exciter to Alternator Armature

* - Order by description, giving complete **ONAN** Model, Spec, and Serial Number.

**AUTOMATIC VOLTAGE REGULATOR GROUP
Prior to Spec L**

<u>PART NO.</u>	<u>QTY. USED</u>	<u>PART DESCRIPTION</u>
305P117	1	Regulator, Voltage
305C163	1	Base Assembly, Voltage Regulator
312A58	1	Condenser, .1 Mfd.

CONTROL GROUP (ENGINE INSTRUMENTS PORTION)

<u>PART NO.</u>	<u>QTY. USED</u>	<u>PART DESCRIPTION</u>
193-3	1	Gauge, Oil Pressure - Prior to Spec L
193-8	1	Gauge, Water Temperature - Prior to Spec L
PANEL ONLY, LOWER CONTROL		
301C1316	1	Prior to Spec J
301C2428	1	Spec J through K
307B234	1	Solenoid Start - Prior to Spec L
307A272	1	Bracket, Start Solenoid - Prior to Spec L
RESISTOR		
304A222	1	15-Ohm, 50-Watt - Adjustable - Spec J through K
304A62	1	25-Ohm, 25-Watt - Prior to Spec J
304A283	1	35-Ohm, 25-Watt - Prior to Spec L
304A37	1	6-Ohm, 75-Watt - Prior to Spec J
304A32	1	15-Ohm, 10-Watt - Prior to Spec L
304A11	1	50-Ohm, 25-Watt - Prior to Spec J
304A19	1	3-Ohm, 50-Watt - Prior to Spec L
304A58	1	50-Ohm, 50-Watt - Prior to Spec L
304A46	1	10-Ohm, 50-Watt - Prior to Spec L

RELAY, IGNITION

306A141	1	Prior to Spec J
306A139	1	Spec J through K
307P819	1	Begin Spec L
308-26	1	Switch, Start-Stop - Prior to Spec J
308P138	1	Switch, Run-Stop - Spec J through K
308A67	1	Guard, Switch - Prior to Spec J
323-52	1	Socket, Ignition Relay - Begin Spec L
332P943	2	Spacer, Ignition Relay Socket - Begin Spec L
307P778	1	Spring, Ignition Relay Hold Down - Begin Spec L

CONTROL GROUP (AC OUTPUT PORTION) UNHOUSED MODELS

NOTE: Unhoused models with OPTIONAL Meter Panel use Control Group listed for housed models.

PART NO.	QTY. USED	PART DESCRIPTION
301C1317	1	Panel Only, Control - Upper - Prior to Spec L
*	1	Box Only, Control
303-65	1	Rheostat, Voltage Regulator - Prior to Spec L
303P32	2	Knob, Rheostat - Prior to Spec L
303P90	1	Rheostat & Switch, Volt Regulator - Prior to Spec L

RESISTOR, OFF START DISCONNECT RELAY - Prior to Spec L

304A131	1	120/240-V, 1-Ph., 120/208-V, 3-Ph., and 120/240-V, 3-Ph. Models (750-Ohm, 25-Watt)
304A563	1	277/480-V, 3-Ph. Models (2500-Ohm, 25-Watt)

RELAY, START DISCONNECT - Prior to Spec L

307C664	1	120/240-V, 1-Ph., 120/208-V, 3-Ph., and 120/240-V, 3-Ph. Models
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307C707	1	277/480-V, 3-Ph. Models
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BLOCK, TERMINAL - Prior to Spec L

332A333	1	2-Place, 1-Ph. Models
332A406	1	3-Place, 3-Ph. Models

STRIP, BLOCK MARKER - Prior to Spec L

332A600	1	2-Place (23, 24), 1-Ph. Models
332A426	1	3-Place (18, 19, 20), 3-Ph Models

308A12	1	Switch, Volt Selector - 3-Ph. Models - Prior to Spec L
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303-76	1	Knob, Volt Selector Switch - 3-Ph. Models - Prior to Spec L
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315B20	1	Transformer, 277/480-V, 3-Ph. Models - Prior to Spec L
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320P307	1	Lock, Circuit Breaker Handle - Begin Spec L
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301A2727	1	Handle, Control Panel - Begin Spec L
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* - Order by description giving complete Model, Spec, and Serial Number.

CONTROL GROUP (AC OUTPUT PORTION) HOUSED MODELS

NOTE: Use this group also for Unhoused Models with OPTIONAL METER PANEL.

PART NO.	QTY. USED	PART DESCRIPTION
PANEL ONLY, CONTROL - Prior to Spec L		
301C1356	1	1-Ph. Models
301C1374	1	3-Ph. Models
*	1	Box Only, Control
303-65	1	Rheostat, Voltage Regulator - Prior to Spec L
303P32	2	Knob, Rheostat - Prior to Spec L
303P90	1	Rheostat and Switch, Volt Regulator - Prior to Spec L

RESISTOR, OFF-START DISCONNECT RELAY - Prior to Spec L

304A131	1	120/240-V, 1-Ph., 120/208-V, 3-Ph. and 120/240-V, 3-Ph. Models (750-Ohm, 25-Watt)
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304A563	1	277/480-V, 3-Ph. Models (2500-Ohms, 25-Watt)
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RELAY, START DISCONNECT - Prior to Spec L

307C664	1	120/240-V, 1-Ph., 120/208-V, 3-Ph. and 120/240-V, 3-Ph. Models
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307C707	1	277/480-V, 3-Ph. Models
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315B20	1	Transformer, 277/480-V, 3-Ph. - Prior to Spec L
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320P307	1	Lock, Circuit Breaker Handle - Begin Spec L
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301A2727	1	Handle, Control Panel - Begin Spec L
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* - Order by description giving complete Model, Spec, and Serial Number.

CITY WATER COOLING SYSTEM GROUP (PLANTS WITHOUT WATER COOLED EXHAUST MANIFOLDS OR HEAT EXCHANGER) - OPTIONAL EQUIPMENT - Prior to Spec L

PART NO.	QTY. USED	PART DESCRIPTION
505-272	1	Nipple, Half (1-1/2 x 4")
505-385	1	Nipple, Half (1-1/2 x 2")
307P639	1	Valve, Solenoid